

Naval Weapons Station Seal Beach

Detachment Concord

Restoration Advisory Board

Meeting of March 4, 2002

NICCOLI REPORTING

(650) 573-9339

C

C

C

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	RESTORATION ADVISORY BOARD MEETING NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD TRANSCRIPT OF PROCEEDINGS HELD AT Clyde Community Center 109 Wellington Avenue Clyde, California 94520 Taken before WENDY L. GRAVES Certified Shorthand Reporter State of California Monday, March 4, 2002 ---oOo--- Page 1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	1 MARCH 4, 2002 PROCEEDINGS 7:04 P.M. 2 -oOo- 3 MR. PONTEMAYOR: Good evening, ladies and 4 gentlemen. Could we please be seated to start our 5 meeting? 6 On behalf of the RAB, I welcome all of 7 you. My name is Rudy Pontemayor. I am the Navy 8 co-chair. 9 All the RAB members have name plates on 10 the table, so everybody knows the names. So 11 perhaps we can start at the back and introduce the 12 community members in attendance today. 13 Let's start with you, sir. 14 MR. SIMONS: Good evening. My name is 15 James Simons. I'm a Bay Point resident. 16 MR. PONTEMAYOR: Thank you. 17 MR. COOPER: I'm David Cooper, U.S. 18 Environmental Protection Agency. 19 MS. LOIZOS: Hi. I'm Lea Loizos. I'm 20 with Arc Ecology. 21 MS. SHIRLEY: I'm Chris Shirley with Arc 22 Ecology. 23 MR. ANDAL: I'm Amado Andal, Naval Weapons 24 Station employee. 25 MR. STORE: Jim Store, City of Concord. Page 3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	PERSONS PRESENT Marcus O'Connell, Co-chair, Concord Resident Rudy Pontemayor, Co-chair, U.S. Navy John Bosche, Tetra Tech EMI Joanna Canepa, Tetra Tech EMI David Griffith, City of Concord Carolyn Hunter, Tetra Tech EMI Dean McLeod, Contra Costa County Historical Assn. Laurent Meillier, RWQCB Raymond O'Brien, Bay Point Resident Phillip Ramsey, U.S. EPA Gil Rivera, U.S. Navy Gay Tanasescu, Bay Point Resident Mary Louise Williams, Concord Resident PERSONS PRESENT IN THE AUDIENCE Amado Andal, U.S. Navy David Cooper, U.S. EPA James Simons, Bay Point Resident Chris Shirley, Arc Ecology Lea Loizos, Arc Ecology Jim Store, City of Concord Patricia Ryan, DTSC Bill Howell ---oOo--- Page 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	MS. RYAN: Patricia Ryan, Department of Toxic Substance Control. MR. BOSCHE: I'm John Bosche with Tetra Tech. MS. CANEPA: I'm Joanna Canepa with Tetra Tech. I will be doing any direction during the meeting. MR. PONTEMAYOR: Anybody without name plates? MS. WILLIAMS: I'm Mary Lou Williams, City of Concord. MR. BOSCHE: I already went. MR. RIVERA: I'm Gilbert Rivera, the Navy project manager for the cleanup restoration. MR. O'BRIEN: You see my name. MR. PONTEMAYOR: Again, Rudy Pontemayor, Navy co-chair. MR. O'CONNELL: Marcus O'Connell, community co-chair. MR. RAMSEY: I'm Phillip Ramsey with the United States Environmental Protection Agency. MS. TANASESCU: Gay Tanasescu, Bay Point resident. MR. McLEOD: Dean McLeod, Contra Costa Historical Society. Page 4

1 MR. GRIFFITH: David Griffith, City of
2 Concord.
3 MS. HUNTER: Carolyn Hunter, Tetra Tech.
4 MR. PONTEMAYOR: Thank you.
5 I will give over the table to Ms. Carolyn
6 Hunter to explain about protocol regarding our
7 court reporter.
8 MS. HUNTER: Okay. I just want to
9 introduce, this is our new court reporter, Wendy,
10 and I just wanted to remind you guys about the
11 protocol that you need to use so that Wendy has an
12 easy time trying to get all of this information
13 down and transcribing in, and so that we can have
14 our meeting transcript a little bit sooner than
15 last month.
16 So just make sure that you speak slower
17 than normal, and when you speak so that she can get
18 to know everybody here, especially if you don't
19 have a name plate, make sure you say your name
20 before you start your comments.
21 So if you have any questions, just let me
22 know.
23 MR. PONTEMAYOR: Thank you.
24 I now turn over the table to the community
25 co-chair, Mr. Marcus O'Connell.

Page 5

1 MR. O'CONNELL: Okay. The next item is
2 the agenda review and approval, and I would like
3 everyone to review their agenda, and if they take
4 any exceptions to it, please let me know.
5 Does anyone have any comments?
6 MR. MCLEOD: Dean McLeod.
7 I wonder if we can get clarification about
8 public comment. Is the only time that non-RAB
9 members can comment at the beginning or the end of
10 the meeting? What is the procedure on that?
11 MR. O'CONNELL: My understanding is that
12 public comment is put at the beginning of the
13 meeting so that any person here -- but mostly for
14 the benefit of people who are not RAB members --
15 can comment on something that is not on the agenda.
16 Then during the course of the meeting, the
17 public can comment on any item on the agenda as it
18 comes up. The order of discussion for each item
19 would be essentially, if there was a presentation,
20 the presentation would be made. Then RAB members
21 would have opportunities to ask questions of the
22 presenter.
23 The public would then have an opportunity
24 to comment. Then it would come back to the RAB for
25 discussion. That's my understanding.

Page 6

1 MR. MCLEOD: Is that the way it is?
2 MR. PONTEMAYOR: That's acceptable.
3 There was a suggestion, in fact -- Rudy
4 Pontemayor, Navy co-chair.
5 There was a suggestion from Mr. Ramsey
6 regarding a slight revision of the agenda on the
7 item of new business. He suggested that instead of
8 the presentation being done first, the agency will
9 provide their comments before the presentation, if
10 that is all right. That's the only slight change.
11 Thank you.
12 MS. CANEPA: There was also another
13 proposed change. The court reporter requested a
14 break halfway through the meeting, so I wanted to
15 propose that we take a five-minute break between
16 old business and new business.
17 MR. O'CONNELL: Okay.
18 Gay.
19 MS. TANASESCU: I had a suggestion to make
20 for the framework of the agenda.
21 When I was looking at this, it seemed like
22 it's set out in a corporate format where everything
23 has a specific time right down to the minute. And
24 most public meetings that I have been to, they have
25 a start date and an end date, and maybe the

Page 7

1 presentations or the reports are timed, but the
2 discussions are estimates only, because you don't
3 know how long it's going to take to talk about a
4 certain topic.
5 What they have done here is basically
6 closed off any meaningful discussion by the way the
7 time is framed on here.
8 MR. PONTEMAYOR: Thank you.
9 May I take that for comment? It was
10 proposed like that because we have a very loaded
11 agenda. In fact, the community co-chair and I
12 postponed several other items that were supposed to
13 be scheduled for this meeting because of the loaded
14 agenda.
15 Yes, we can certainly do that. That's
16 really not a problem. We can simply indicate the
17 items of the agenda. Maybe a timekeeper or one of
18 us can flag down a speaker when the time limit is
19 going to be reached.
20 That way we can possibly cover more in as
21 short as possible time or perhaps discuss these
22 other issues at another venue, by e-mail or another
23 meeting someplace. And the reason for this time
24 agenda is really to maximize the efficiency of the
25 meeting.

Page 8

1 Thank you.
2 MS. TANASESCU: I understand that, Rudy.
3 I just wanted to comment back that I would like it
4 to be set in more a flexible framework so that any
5 community members who may come in and want to
6 participate will have time to comment or time to
7 ask questions after each presentation and report,
8 the same way a RAB member would.
9 I, for one, would be willing to go over
10 the time limit if it was needed, if they want to
11 write something in that says if it doesn't cut off
12 say at 9:30, for people to take a vote to continue.
13 MR. O'CONNELL: I am reminded that we are
14 actually over the time limit that's down here right
15 now. So what I'd like to do is ask how people feel
16 about Gay's comment. Should we have a timed
17 agenda?
18 Well, let's put it this way: Would you
19 like to make a motion and we can wrap this up
20 pretty quickly?
21 MS. TANASESCU: Okay. Are we supposed to
22 make motions? I wasn't sure about voting.
23 MR. O'CONNELL: I think that it would be
24 appropriate, though, to do something. We need to
25 have some procedure to get a consensus of the

Page 9

1 group.
2 Pat.
3 MS. RYAN: I just wanted to comment that
4 typically I know a lot of the RABs have these
5 agendas, but they are somewhat flexible. Though
6 they put the time frames in there to somewhat keep
7 on track, it's not written in stone.
8 If something comes up that's very
9 important, a lot of times it's discussed no matter
10 how long it takes, I mean, within reason. So I
11 think that the times are in there to keep things on
12 track again. Like they do at Treasure Island, they
13 say at the end of the meeting everyone will stay,
14 and if they have further discussion they will do
15 that then.
16 So that way people, if they want to leave,
17 can go on time if they have to, and there is still
18 time for discussion afterwards.
19 MS. TANASESCU: To better reflect that,
20 could I just move that perhaps the format be
21 written in a more -- along the lines of perhaps a
22 city council type format or city commission?
23 MR. O'CONNELL: And that means that the
24 presentations would be timed but the public
25 discussion -- or the discussion would be estimated?

Page 10

1 MS. TANASESCU: Yes.
2 MR. O'CONNELL: For lack of any protocol
3 that we haven't really placed yet, I will second
4 the motion. I am not supposed to as a chair, but to
5 expedite this.
6 We can open it up for discussion if anyone
7 has anything briefly. I'd like to weigh your
8 thinking here. But is there any discussion?
9 MR. O'BRIEN: Well, it has been suggested
10 that perhaps we would have a timed agenda but that
11 if we hit the time limit and we were over time then
12 we would open it up to a decision by the RAB
13 whether they wanted to continue with a discussion
14 or move on to the next agenda item.
15 MR. O'CONNELL: Would the maker of the
16 motion like to amend their motion?
17 MS. TANASESCU: Yes.
18 MR. O'CONNELL: Okay. The motion is so
19 amended.
20 Any further discussion?
21 MR. O'CONNELL: All those in favor?
22 (Vote taken. Hands raised.)
23 MR. O'CONNELL: Let's raise our hands
24 pretty high so I can count them.
25 Against?

Page 11

1 (No hands raised.)
2 MR. O'CONNELL: The ayes have it.
3 Okay. The next item on -- is there any
4 other comment on the agenda itself this evening?
5 MR. BOSCHE: Just one thing.
6 I'm not sure whether you are handling --
7 you are handling announcements, right, Gil, for the
8 Navy and the second part?
9 MR. O'CONNELL: That's not on the agenda.
10 MR. BOSCHE: It's part of the
11 announcements. I think so.
12 MR. O'CONNELL: I think that it's an item
13 for discussion, not an item for an action. We
14 might be able to pick it up perhaps at a future
15 meeting.
16 MR. O'BRIEN: What is the item?
17 MR. BOSCHE: It's just the schedule for
18 document review for RAB.
19 MR. PONTEMAYOR: We have decided during
20 our interaction to postpone the schedule for
21 discussion during the next RAB meeting.
22 MR. BOSCHE: Okay.
23 MR. O'CONNELL: Okay. Well, I'll take it
24 the agenda is approved.
25 Approval of the minutes for the December,

Page 12

1 January, and February meeting. As co-chair I have
2 a question here. How many people have copies of
3 the December, January, and January (sic) minutes
4 upon which to comment?

5 MR. RAMSEY: I have a set.

6 MR. O'CONNELL: With them.

7 Do you?

8 MR. MCLEOD: January and February.

9 MR. O'CONNELL: Does everyone feel
10 comfortable about approving -- or does anyone feel
11 uncomfortable about approving minutes that they
12 don't have?

13 MS. TANASESCU: I just wanted to make one
14 comment in that. While I do appreciate the tapes
15 of the previous meetings with Tetra Tech, that
16 wasn't quite what my previous request had been. I
17 had asked for a transcript of the tapes to be
18 entered into the administrative record, not to get
19 a copy of tapes for myself to review.

20 And I'm still putting that forward.

21 MR. O'CONNELL: Could I ask you to make a
22 motion?

23 MS. TANASESCU: I move that a transcript
24 of the tapes from the December, January, and
25 February meetings be entered into the

Page 13

1 administrative record.

2 MR. O'CONNELL: Would anyone like to
3 second that motion?

4 MS. WILLIAMS: I will second that.

5 MR. O'CONNELL: Any discussion?
6 Joanna?

7 MS. CANEPA: I just wanted to note that
8 the meetings were recorded with the intention of
9 Carolyn helping write up the meeting summary. So
10 we didn't record the meeting while having people
11 state who they are, things like that.

12 So the quality of the tapes is not high,
13 so it would be a very onerous task to transcribe
14 that.

15 MS. RYAN: I think it should still be
16 done. The RAB has asked more than once to have
17 that, and I think that you guys should at least
18 take a stab at it and do your best effort to have
19 it in writing.

20 MR. RIVERA: I'd like to make a comment.
21 My name is Gil Rivera.

22 As long as everyone recognizes that the
23 particular statements that will be transcribed
24 can't be, shall we say, tagged to any one
25 individual. So we don't know who said what; we can

Page 14

1 only surmise. So it will be more of a dialogue
2 between unknown parties.

3 MS. RYAN: Unless their name is stated,
4 right?

5 MR. RIVERA: That's right.

6 So as far as the ability of, as they say,
7 the ear of the listener, I guess would be the case,
8 or the eye of the reader, as the case may be. So I
9 don't know if it will be that beneficial.

10 But if you want a transcript, we can
11 certainly do the transcript or at least consider
12 it. I have to investigate how much it will cost,
13 and I want to bring those costs before the RAB so
14 the RAB is aware of how much money we are spending
15 for this.

16 I am not adverse to doing it. I just want
17 to make everybody aware of what we're going.

18 MR. O'CONNELL: Gay.

19 MS. TANASESCU: I just want to ask while
20 we're talking about what the RAB wants to expend,
21 do we have any solid figure of what our budget
22 actually is so that we can make a decision?

23 MR. RIVERA: The RAB per se doesn't really
24 have a budget to speak of. There are funds that
25 are allocated by the activities unit at the weapons

Page 15

1 station in Concord and also by the Navy EFA West.

2 There are certain things we are allowed to
3 expend funds for. While I can't give you a number
4 off the top of my head, there are funds available
5 to do specific things. Some of these costs were
6 duplication of transcription, so on, so forth, or
7 come from the activity whose funds are pretty well
8 controlled.

9 So, no, I can't give you the exact
10 number. There are two funding sources.

11 MS. TANASESCU: Okay. Thank you.

12 MR. O'CONNELL: I would like to ask the
13 maker of the motion if they were to amend their
14 motion to say that we should come up with a draft
15 transcript and then individuals on the RAB could
16 take ownership of particular comments, and those
17 could be -- the ownership could be entered into the
18 final transcript.

19 MS. TANASESCU: I'm not opposed to that.
20 To be honest, it doesn't really matter to me that
21 much that it get that far. I just wanted a record
22 of everything in there. But if other people are
23 amenable to that going on, I'm not opposed to it.

24 MR. O'CONNELL: So should I consider the
25 motion so amended?

Page 16

1 MS. TANASESCU: Yeah.
2 MR. O'CONNELL: All those in favor?
3 (Chorus of ayes.)
4 MR. O'CONNELL: For -- all those opposed?
5 (One hand raised.)
6 One opposed. Motion carries.
7 MS. RYAN: Marcus, I have one more
8 suggestion.
9 This is Pat Ryan again.
10 Alameda does it this way, where they have
11 a tape and they produce minutes every month in
12 writing. So I believe Tetra Tech does it. So
13 maybe you can contact whoever does it for that,
14 because they seem to be able to do it regularly and
15 on time based upon a taped transcript. So you
16 might want to check with them.
17 MS. CANEPA: We already do provide minutes
18 every month.
19 MS. RYAN: But they are based upon the
20 tape and they are almost verbatim.
21 MR. O'CONNELL: Getting back to the main
22 topic of discussion here on approval of the minutes
23 for December, January, February, it's been noted
24 that many of us don't have the minutes for December
25 and the two meetings in January before us, and I'm

Page 17

1 wondering if people feel comfortable with approving
2 the minutes under those conditions.
3 MR. MCLEOD: I make a motion that we
4 approve the minutes subject to corrections from the
5 transcripts once they are available.
6 MR. O'CONNELL: Subject to?
7 MR. MCLEOD: Corrections based on the
8 transcripts once they are available.
9 MR. O'CONNELL: The transcripts are
10 available.
11 MR. MCLEOD: No, transcripts from the
12 tapes.
13 MR. O'CONNELL: I would like to -- okay.
14 Any further discussion?
15 MS. RYAN: Marcus, one problem I see with
16 that is people could go back later and in
17 retrospect say, no, I didn't mean this or that and
18 change what they said.
19 MR. MCLEOD: That's the purpose of the
20 transcript.
21 MS. RYAN: In order for it to be
22 documented the way it was said, it should be just
23 based what's on the tape and just be, again, a
24 draft or rough cut like Gil suggested. But if
25 people start going back and changing and commenting

Page 18

1 on what they said, it would just open the door for
2 misconception and also delay the process
3 considerably.
4 MR. O'CONNELL: Okay. Where do we go from
5 here? Do people feel comfortable with approving the
6 minutes as I suggest? I'm not getting any sense
7 here.
8 I will make a comment. I would like to ask
9 to postpone approving the February 4th minutes
10 because we just received them this evening and we
11 have not had an opportunity to review them. I know
12 we have had an opportunity to review the other
13 minutes and comments have been made over time.
14 I think we should accept comments on the
15 February minutes, though. I would like someone to
16 make a motion to approve the December and January
17 minutes.
18 MS. TANASESCU: I so move.
19 MR. O'CONNELL: Do I hear a second?
20 MS. WILLIAMS: Second.
21 MR. O'CONNELL: All those in favor?
22 (Chorus of ayes.)
23 MR. O'CONNELL: Opposed?
24 (No response.)
25 MR. O'CONNELL: Passed unanimously.

Page 19

1 Are there any comments on the February
2 minutes?
3 (No response.)
4 MR. O'CONNELL: Okay. I have several
5 comments.
6 Joanna.
7 MS. CANEPA: I think the comments that you
8 submitted to Carolyn earlier today have been
9 incorporated into the document you have and we
10 distributed tonight.
11 MR. O'CONNELL: Yes. And I am making
12 corrections on the corrected version.
13 On page 4 under Item V, the second
14 paragraph, there is essentially a long typo,
15 "Mr. O'Connell asked Mr. Bosche whether the
16 possibility exist" --
17 Sorry for murdering your name.
18 -- "whether the possible existence of
19 coven"
20 That phrase should be stricken. It goes on
21 to say the same thing later on.
22 On page 5, Section VII, it says,
23 "Mr. O'Connell read excerpts from a letter
24 summarizing the RAB's concern"
25 I would like to have that revised to say,

Page 20

1 "Mr. O'Connell read excerpts from a letter from six
2 RAB community members summarizing the RAB's concern
3"

4 And on page 6, because we had -- and this
5 is only because we are making note that a mock
6 landfill made of trash was placed in front of the
7 room. I'd also like it recorded before Item No. IX
8 that during the break in which we let the court
9 reporter put new paper in her transcription
10 machine, the Navy folded the tables and chairs in
11 the meeting room, put them up.

12 And finally, under Section IX, where we're
13 setting the next agenda, I'd like to make a
14 correction under "The Land Fill ROD" should read
15 "Agency comments on the Land Fill ROD."

16 And those are my comments.

17 MR. McLEOD: I guess I did have one
18 comment. There was no trash in a box; it was all
19 biodegradable, natural material.

20 MR. O'CONNELL: Okay. So that should be
21 stricken?

22 MR. McLEOD: Well, there is no trash in
23 it.

24 MR. O'CONNELL: Okay. Any other comments
25 on the agenda?

Page 21

1 MR. O'BRIEN: I really don't think it's
2 appropriate that comments like this should be
3 included in minutes of a meeting.

4 MR. O'CONNELL: Which comments?

5 MR. O'BRIEN: About the trash box. I
6 would like to see that entire statement stricken.

7 MR. O'CONNELL: That's not just a
8 correction. I think this would probably require a
9 motion if you want to do that, Ray.

10 MR. O'BRIEN: I move that the references
11 to a cat box be stricken from the minutes as
12 inappropriate.

13 MR. O'CONNELL: Could I ask the maker of
14 the motion to amend the motion then to strike the
15 correction I just asked for about the Navy folding
16 the tables and chairs, as well? Would that not be
17 appropriate?

18 MR. O'BRIEN: Right.

19 MR. O'CONNELL: Is there a second to the
20 motion?

21 MR. McLEOD: I will second it.

22 MR. O'CONNELL: Okay. All those in favor?
23 (Chorus of ayes.)

24 MR. O'CONNELL: Only two people are going
25 to vote on this? Would anybody like to keep it as

Page 22

1 it is? Let's ask that question.

2 Okay. It passes. And with that, I think
3 we're done. We will hand it back to Rudy.

4 MR. PONTEMAYOR: Thanks.

5 The next item on the agenda is the
6 committee reports and announcements. And the first
7 part of that is the RPM report, and I will call on
8 Gil to provide us with a report.

9 MR. RIVERA: Thanks, Rudy.

10 If you will look through your packages
11 distributed this evening, there is a single page.
12 The title is "Navy Remedial Project Manager's
13 Report for February 2002."

14 In the interest of brevity, I did leave
15 this to bullets. After I go through this
16 presentation, I would request that you give me some
17 feedback as to how much detail you want on this
18 particular report.

19 Currently, the installation restoration
20 program for the Concord Naval Weapons Station, we
21 are conducting installation restoration work on 18
22 sites.

23 We also have four solid waste management
24 units which we are also conducting investigations
25 on. So all totaled we have those particular sites

Page 23

1 moving not simultaneously through the system, but
2 there is some action taking place on all those
3 sites, either investigative work, report writing,
4 or actually going out to the field, taking samples,
5 things of that nature.

6 All of the work that we do in the
7 installation restoration program is being
8 coordinated directly with regulatory agencies, U.S.
9 EPA, NOAA, Fish and Wildlife Service, as well as
10 state agencies, Department of Toxic Substance
11 Control, Regional Water Quality Control Board and
12 so on.

13 During the month of February, we did have
14 some extensive meetings, coordination meetings with
15 the regulatory agencies, primarily to review the
16 navy's response to agency comments.

17 Essentially what happens on those, we
18 receive comments from the regulatory agencies on
19 documents that we have prepared. We, in turn,
20 prepare a response to comments. And usually if the
21 responses and the comments are quite involved, we
22 like to sit across the table and go through them
23 one by one with the decision-makers at the table.

24 In this particular month we had a meeting
25 on Sites 13 and 17, and we also had a meeting on

Page 24

1 the litigation area sites. There is quite a few
2 sites. They are all known as the litigation area
3 sites, and they move together through the
4 investigative program.
5 In particular, we did discuss the five-
6 year review response to agency comments. There are
7 quite a few comments on that. And we went through
8 the responses that the Navy would take and the
9 action that the Navy would take on the comments on
10 that five-year review.

11 The five-year review takes place after the
12 site -- the remedy has been in place on the site
13 for five years. And then we are obligated by law
14 to prepare our report that summarizes or evaluates
15 the remedy on these particular group of sites.

16 We also had a meeting to deal -- or to
17 look at a strategy for dealing with what are called
18 PRPs.

19 I'm a little lost here.

20 MS. CANEPA: Potentially responsible --

21 MR. RIVERA: Potentially responsible
22 parties. Thank you.

23 Potentially responsible parties are
24 private sector sites that lie immediately outside
25 the fence line of Concord Naval Weapons Station.

Page 25

1 RAB should be using.
2 And we came up with recommendations as to
3 who best could supply that training and when it
4 could be supplied, as well. And we will provide
5 that information to the RAB so the RAB can make
6 decisions on how best to participate in the
7 training.

8 We can have it at, for instance, the RAB
9 meetings or separate sessions. It can be a half-
10 hour session, half-day or a full-day session,
11 depending on how you want to craft the particular
12 training.

13 We also discussed a site tour. There has
14 been request for a site tour, and we discussed
15 having that site tour, when best to conduct it and
16 what particular areas we would visit for the site
17 tour, eventually visiting every IR site on the
18 activity.

19 The site tour would have to be divided
20 into essentially two major groups: The tidal area,
21 the access of which is controlled by the U.S. Army,
22 they operate the site; and the inland area access
23 completely controlled by Navy that we could tour at
24 our convenience unless some operation is taking
25 place that would preclude us from doing so.

Page 27

1 These particular sites were the sources of
2 contamination on some of the sites in the
3 litigation area.

4 And we can continue to review -- our
5 lawyers continue to review the consent decrees on
6 these particular sites and to evaluate whether the
7 consent decrees were followed through by the
8 particular parties in question.

9 So as far as the strategy, we need to look
10 at those sites. We're at the five-year review, as
11 I stated previously, and we need to make sure that
12 there is no upgraded contamination that is coming
13 from the sites on the Navy property that's been
14 remediated.

15 During the month of February, we also
16 constructed a remedial project managers meeting. I
17 bulletized the agenda for that particular meeting
18 and the bullets -- or rather the agenda will be --
19 rather the minutes for that particular agenda will
20 be provided to you for your review.

21 We did discuss restoration advisory board
22 training, human health risk assessment training,
23 ecological risk assessment training, and also the
24 basic RAB training, in other words, what are the
25 duties, responsibilities, and processes that the

Page 26

1 We discussed the tidal area sites
2 ecological risk assessment that's currently in
3 preparation, and it's out for public comment. It's
4 out for agency review and comment, as well.

5 We discussed the chemical and pigment
6 site, which is one of the PRDs, essentially the
7 strategy that we would use in dealing with that
8 site. We also discussed Sites 1, the tidal area
9 landfill, Sites 22, 27, and 29. These are other IR
10 sites. Site 22 is best known as Building 7SH5,
11 which is the old missile wings and fins repair
12 facility.

13 So we're looking at inorganics on that
14 particular site and conducting an RIFS.

15 We also looked -- discussed Site 27, which
16 is known as Building IA20, and that particular
17 building is the weapons quality assurance
18 building. On that one we're looking at potential
19 for the use of land use controls because of the
20 pesticides that surround the site.

21 We looked at Site 29, which is building
22 IA25, also an inorganics situation in a crawl space
23 and the association of several endangered species
24 that may be in the area.

25 We also discussed the federal facility

Page 28

1 agreement, the timing for that and the release of
2 the final agreement for the information repository.
3 Also in the month of February, internal to
4 Navy we have initiated at the EFA West contract
5 coordination. Essentially what's happening at EFA
6 West is the one major contract, which is known as
7 CLEAN, Comprehensive Long-term Environmental Action
8 Navy contract, has reached its completeness. It's
9 gone its full course as far as time and dollar
10 value.

11 And southwest division in San Diego, as
12 well as Engineering Field Activity West, employed
13 that contract to do the investigation, reporting,
14 and so on for the Concord Naval Weapons Station.

15 As I stated, that contract is coming to an
16 end, and we have to strategize as to how we will
17 move to other contract vehicles from the CLEAN
18 contract.

19 This is -- to the Navy it's very important
20 because we do have awards that were made in
21 previous fiscal years. That money cannot be moved
22 forward to new actions and must be expended for
23 actions that were awarded in the same fiscal year,
24 meaning that the money can't move -- the money
25 cannot be used for something I would initiate

Page 29

1 today, a report and investigation or what have you.
2 The funds must be used for awards that were made
3 the previous fiscal year.

4 So the strategy there is to use the
5 dollars that are available for Concord Naval
6 Weapons Station. And if we can't use it at least
7 allow other activities in the footprint of the
8 Engineering Field Activity West to use the funding.

9 We have enjoined with the southwest
10 division to identify alternative contracts that are
11 out there for our use. There are various smaller
12 contracts in the original CLEAN contract that we
13 have identified for potential awards for new work
14 and also for carrying on the work that is currently
15 in progress.

16 And last, during the month of February, we
17 have initiated Navy budget database update. The
18 budget database that we use within Navy for the
19 whole Navy is called the norm database. It's not
20 an acronym; it's a truncated version of the word
21 "normalized." Why, I don't know.

22 But anyway, it's a tremendously large
23 database that includes all the information that
24 appears in the annual report to Congress and about
25 a half a dozen other databases. It includes all

Page 30

1 the site data from day one to the present. It's
2 the system that we use to track the costs for the
3 Navy at Concord.

4 So we have, like I said, initiated the
5 database update, meaning that there is changes and
6 improvements to the database. And we get the
7 database versions downloaded to us from Washington,
8 D.C. We try to run them on the database. They
9 sometimes work, sometimes not.

10 So it's quite onerous and difficult to get
11 that done for all the sites. But we have initiated
12 that work, and we should be completing it this
13 month before we start loading the budget for fiscal
14 year, hopefully, 2004.

15 That essentially is my report for the
16 month of February for the Navy RPM.

17 MR. PONTEMAYOR: Thanks, Gil.

18 We will now give the floor to Mr. Ramsey
19 from U.S. EPA to give us his RPM update.

20 Phil.

21 MR. RAMSEY: Well, thank you, Rudy.

22 Actually, Mr. Rivera did a very good job
23 of briefing the RAB for what the agencies and what
24 the Navy have been working on really this month. I
25 think this is really our intention to use this

Page 31

1 little time period at this RAB as its little report
2 just to update the RAB on what the Navy and what
3 the agencies have been doing, essentially.

4 The only thing I was going to add is,
5 again, Gil, Mr. Rivera, pretty much ran through
6 some of the discussions and the topics we have been
7 having regarding the weapons station.

8 This month, in addition, I do have copies
9 of two letters the EPA issued. One is to the public
10 that had commented on the federal facilities
11 agreement for the weapons station.

12 So on the 28th EPA issued their responses
13 to the four public parties that provided comments
14 on the Concord federal facilities agreement. So we
15 did issue those final responsive comments.

16 Gil, you got the copies.

17 I brought copies for all you folks
18 anyways. You may have been electronically copied
19 with Rudy or something. I think that, given the
20 procedure, has gone and -- an electronic copy was
21 provided to the Navy and let them route these
22 things. We will eventually try to do it a little
23 faster, convert to PDF and we can send these things
24 out to you folks.

25 So I do have copies of a letter we issued

Page 32

1 on this FFA. Just so everyone knows, I have got a
2 few minutes here actually to fill in. As we
3 indicated in the transmittal letter, we appreciate
4 those four parties that provided comments on this
5 Concord Weapons Station Federal Facilities
6 Agreement.

7 We did not make any changes to that legal
8 document, however, and we indicate that on the
9 cover letter. And we're essentially, in providing
10 those comments to folks and documenting that the
11 Navy and the agency, EPA, agreed not to make the
12 changes, this FFA agreement is essentially in place
13 now.

14 So we have a document we can work from if
15 we have disagreements with the military. The one
16 component that is still outstanding to really, say,
17 lock in, but there is a piece missing to the
18 Federal Facilities Agreement and that's a site
19 management plan.

20 And because we are having still
21 discussions with the RAB -- we know you folks have
22 submitted a letter to the Navy and to EPA for the
23 scheduled modifications, we still are having those
24 discussions. We actually need to sit down in a
25 more formal sense and talk about the schedule

Page 33

1 thoughts on what we expect in terms of the
2 alternatives analysis. And based on what we've
3 heard, there is agreement on what that feasibility
4 study will look like. So I have copies of the
5 letter for you folks tonight, also.

6 Just to highlight a couple things. We had
7 two site visits this month, also, on the first
8 Saturday, on the 9th. We went out to see the
9 landfill site and some of the other tidal area
10 sites with many of you RAB members.

11 Then on around the 26th, thereabouts, we
12 actually had another little site visit. It was
13 just the agencies, Water Board, and myself were
14 seeing some field work the Navy was doing. So we
15 typically stop by to watch some drilling. It was
16 at the inland SWMU sites where the Navy is doing
17 some sampling with soils and groundwater.

18 So we had an opportunity to meet with a
19 couple RAB members at noontime. And then Water
20 Board and EPA did a short site visit to watch some
21 drilling work out at the site. That's a real
22 future thing.

23 A couple projects the EPA is working on,
24 just so you folks know. I'm in the process of
25 finishing a letter on the Site 29 feasibility

Page 35

1 modifications.

2 I'm not sure if the Navy is going to
3 present a preliminary proposal or not tonight to
4 you folks.

5 John, I wasn't sure if that was actually
6 dropped or not on the agenda. But I believe the
7 Navy is making some preliminary efforts to make
8 some changes to the schedule. I haven't seen that
9 yet.

10 So my thought was we were going to get a
11 proposal from the Navy. We were going to look at
12 it, ideally share that with you RAB members, see if
13 that's acceptable; if not, then make the changes in
14 the schedules and we're essentially off and
15 running.

16 And then just another letter we issued
17 about the same time at the end of this month on the
18 Site 27, which Gil had mentioned that's a small
19 little chemical testing laboratory. We issued a
20 letter to the Navy on some preliminary thoughts on
21 the feasibility study and the Record of Decision.

22 Both these documents have not been
23 prepared yet. The Navy is in the process of
24 completing this drafting of the feasibility study.
25 So we provided a letter to them that provides some

Page 34

1 study. We provided some preliminary comments to
2 the Navy a month or so back. We're going to
3 finalize our final letter on it, again, Site 29,
4 which was a munitions kind of a mixing building,
5 and that's on the draft feasibility study.

6 We're going to be issuing a letter shortly
7 on a draft sampling analysis plan for Site 22. And
8 we're also reviewing what's a response to the
9 agency comments on the preliminary assessment
10 addendum and an action memo for Area Concern 1. So
11 we hope to be getting a review letter out on that
12 site, Area Concern 1, also, pretty soon.

13 That's about it.

14 MR. PONTEMAYOR: Thanks, Phil.

15 Any comments?

16 MR. O'CONNELL: I have a question and a
17 comment.

18 One question for Mr. Rivera. On the CLEAN
19 contract, who are the parties to the CLEAN
20 contract?

21 MR. RIVERA: The parties are -- well,
22 originally it was PRC, Incorporated. PRC was, in
23 fact, purchased by Tetra Tech, Incorporated
24 sometime during the contract term, and right now
25 Tetra Tech is the prime contractor of the CLEAN.

Page 36

1 MR. O'CONNELL: If I understand what you
2 said before was the CLEAN contract actually covers
3 many bases. This is only for this base?
4 MR. RIVERA: It covers the nine western
5 states, essentially.
6 MR. O'CONNELL: Tetra Tech has that
7 contract for the nine western states?
8 MR. RIVERA: Right. For the nine western
9 states.
10 There are other CLEAN contracts
11 throughout. They cover other geographic areas.
12 And there is currently two major CLEAN contracts:
13 One covers -- this is sponsored by headquarters of
14 the Navy.
15 One CLEAN contract is essentially the
16 eastern half of the United States, and the other is
17 the western half. So there are some major
18 contracts out there.
19 The prime contractor in this case, Tetra
20 Tech, has what we call tiered subcontractors. In
21 other words, they have a slate of contractors that
22 operate underneath Tetra Tech and another tier
23 under that.
24 They also have quite a bit of what we call
25 AA business that they must comply with, being small
Page 37

1 disadvantaged businesses that they must contract
2 with, and they have a quota of contracts that they
3 must impart.
4 Like I said, this is a major contract
5 effort, and there is involvement all the way to
6 headquarters.
7 MR. O'CONNELL: The other -- I guess this
8 is part more of a comment.
9 It would be nice to get the minutes of --
10 I know the remedial contract managers keep minutes,
11 but summary notes. I don't know exactly what you'd
12 call them, summary minutes. It would be nice to
13 get copies of those as they become available. I
14 don't know how far behind you are in getting them.
15 MR. RIVERA: That's not a problem. We
16 will distribute those to the RAB. In fact, correct
17 me if I'm wrong, but isn't there a set of minutes?
18 MS. CANEPA: We intended to bring them
19 tonight. It was an oversight.
20 MR. RIVERA: I will make sure we
21 distribute them and place them also in the
22 information repository.
23 MR. O'CONNELL: Would those minutes be for
24 this meeting that was discussed this evening?
25 MS. CANEPA: Yes.
Page 38

1 MR. RAMSEY: They were approved for the
2 26th or so.
3 MR. O'CONNELL: Okay.
4 MR. PONTEMAYOR: Dean.
5 MR. McLEOD: You were talking about the
6 funding process. I didn't fully understand what
7 you were saying. You talked about it once before,
8 but I am still not fully clear.
9 You said something about if it's not used,
10 if I'm interpreting it right, on these particular
11 Records of Decision. In other words, if we slip
12 through the deadlines on the Records of Decision
13 past that fiscal year, you won't be able to spend
14 the money on those particular projects. Is that
15 right?
16 MR. RIVERA: That is correct.
17 MR. McLEOD: Secondly, you are saying that
18 you will need to spend that money this year, and if
19 you don't spend it, it will have to be on other
20 projects under the umbrella of your office?
21 MR. RIVERA: That's correct. Let me
22 restate that.
23 It sounds convoluted and, in fact,
24 probably is. Essentially what it is, if we made an
25 award say last year, fiscal year 2001, okay, I must
Page 39

1 use that money for work that was awarded in 2001.
2 MR. McLEOD: And when you say, "work that
3 was awarded," you mean specific projects; is that
4 correct?
5 MR. RIVERA: Right. If it turns out for
6 whatever reason that I can't use that money in
7 2001, it goes back to what they call a larger pot
8 of money, the 2001 pot. And another project that
9 EFA West doesn't have need for the funds, it goes
10 back to the pot and anybody else in the continental
11 United States, Hawaii, and so forth, can use that
12 money, the 2001 money if they have a shortfall in
13 2001 for projects that were awarded in 2001.
14 MR. McLEOD: And then on the contrary, in
15 reverse, then if the situation changes the
16 following year, for example, and you have a whole
17 bunch of RODs that come up that you are not fully
18 budgeted for, can you draw on that fund from
19 outside the area?
20 MR. RIVERA: If the original effort was
21 awarded. For instance, if I started the work in
22 2001 and it carries over to 2002, I can use 2001
23 money if I made that award in 2001. But if it's
24 brand-new work that I haven't forecasted yet, I
25 can't use 2001 money; I must use current year
Page 40

1 money.
2 Now, keep in mind that the budgets for
3 Navy are prepared five years in advance, and right
4 now we're required to do ten years out. Okay. I
5 know that messes with everyone's mind, as well as
6 mine, because ten years from now I can't possibly
7 forecast what the funding climate is going to be or
8 is there going to be a recession, we have chicken
9 in every pot, pardon my pun. I don't know what
10 that's going to be, but I am required to plan that
11 far out.
12 So my forecasting has to be such that I'm
13 looking at the projects and trying to anticipate
14 what the requirements will be, what the comments
15 will be, what best suits the project effort, and
16 how much it's going to cost.
17 And I don't know how much money I'm
18 getting not even for next year right now. I won't
19 know that until around the September, October time
20 frame. And then it's subject to revision.
21 MR. MCLEOD: Thank you.
22 MR. PONTEMAYOR: Marcus.
23 MR. O'CONNELL: I need my understanding
24 clarified a little bit on this.
25 You, as the manager, are given a certain

Page 41

1 pot of money by the Navy every year, a budget every
2 year for this site.
3 MR. RIVERA: Yes.
4 MR. O'CONNELL: Now, you have the ability,
5 I take it, to contract based on that budget up to
6 the amount of that budget.
7 MR. RIVERA: Yes.
8 MR. O'CONNELL: If you contract -- let's
9 say you have work that you want to do on Site XYZ,
10 and if you contract this year and yet you are
11 unable to actually execute that contract, it gets
12 delayed a year or two years, do you still have
13 control of that money then?
14 MR. RIVERA: I can leave the money in that
15 project and control it, if I want to answer the
16 questions as to why I'm not expending the funds.
17 If I have awarded a contract, it just doesn't sit
18 there; money is drawn on that account for
19 administration and whatever costs that are
20 incurred.
21 So the budget is continually declining,
22 even though we're not doing anything on that site.
23 So if I wait long enough, the money be expended and
24 I will have done nothing on that work.
25 So there are costs that are inherent in

Page 42

1 contract maintenance. People just don't leave the
2 thing sitting out there with no management. So
3 funds are diminished over time if I don't do
4 anything on that particular site.
5 MR. O'CONNELL: Okay. Thank you.
6 MR. PONTEMAYOR: Thank you, Gil.
7 We will now hear from the community
8 co-chair on the status of the bylaws.
9 Marcus.
10 MR. O'CONNELL: This will be quick.
11 We met February 11th, three of us; David
12 Griffith, myself, and Raymond O'Brien. We worked
13 with the Presidio RAB's bylaws and essentially
14 modified the Presidio's bylaws to fit the Concord
15 Naval Weapons Station and have added a few --
16 couple of extra wrinkles on it.
17 At this point, they still need to be
18 typed -- the changes still need to be typed up and
19 distributed to the bylaws committee. But I
20 anticipate that they will be ready for approval, at
21 least for your consideration, by the very next RAB
22 meeting on April 1st.
23 So that's where we stand on that.
24 I'd like to add here that we've also
25 formed -- the community members have formed a

Page 43

1 committee called the TAPP committee, which stands
2 for Technical Assistance for Public Participation.
3 That was done last week, and we need to set up our
4 meeting.
5 As we will be hearing later on today about
6 the TAPP grant. We're ready now to run with the
7 ball and get that thing together to expedite that
8 grant application.
9 MR. PONTEMAYOR: Thank you.
10 We will now go to the announcements
11 portion of the meeting.
12 I regret to announce the resignation of
13 Miss Freitas from the RAB. But in spite of that,
14 an invitation was still extended to her to
15 participate as a community member rather than a RAB
16 member.
17 We have upcoming RAB training in the
18 works. I will have to submit the decision to the
19 RAB to choose whichever day they prefer. The first
20 training is an ecological health risk assessment
21 training to be given during the RAB meeting at
22 Treasure Island on the 19th of March. That's a
23 Tuesday evening.
24 But if you choose to have that training on
25 another date, please feel free to do so. And you

Page 44

1 may have to decide that tonight or just let me know
2 as soon as you are able to decide on a date.
3 We have invited the public affairs person,
4 Lee Saunders, from San Diego to provide us, for the
5 RAB members, with basic RAB training. Initially,
6 he indicated he's available on April 1st during the
7 RAB meeting.

8 But I have recommended to him -- and of
9 course contingent upon the preference of the
10 members, I told Lee that our RAB meeting is kind of
11 devoted to project presentations and, if possible,
12 if he can hold the RAB training perhaps on a
13 Saturday, then that would really not cut down on
14 the time allowed for our regular RAB meeting.

15 But he consented to come here and do the
16 training at whichever date the RAB members propose.

17 And then the third training item is Tony
18 Doctay (ph.) of EFA West has also arranged from the
19 Navy Environmental Health Center a training on
20 human health assessment, and the date is also
21 subject for approval by the RAB.

22 However, any HC prefers conducting the
23 training towards the later part of March or early
24 April, because many of those trainers are always on
25 the road.

Page 45

1 So I would like to pose these questions to
2 the members on their preferences on the days of the
3 training.

4 MR. PONTEMAYOR: Yes, Gay.

5 MS. TANASESCU: I have a question.
6 What's RAB 101?

7 MR. PONTEMAYOR: Basic RAB.

8 MS. TANASESCU: Is that the same thing
9 that we went through at Treasure Island already?

10 MR. PONTEMAYOR: I was assured it would be
11 much more, based on current RAB items which just
12 came out.

13 MS. TANASESCU: So it would essentially be
14 an update?

15 MR. PONTEMAYOR: It will be an update.

16 MR. MCLEOD: Are the same people
17 presenting that as are going to be presenting the
18 risk assessment, or is that somebody different?

19 MR. PONTEMAYOR: Different. In fact, a
20 number of people are available to present the eco
21 risk training and human health. A consultant,
22 environmental consultant, Tetra Tech, is presenting
23 the training at Treasure Island on the 19th.

24 The Navy Environmental Health Center would
25 present the human health risk assessment. And

Page 46

1 EPA -- a toxicologist at EPA can also present or
2 provide additional training information to the RAB
3 members.

4 MR. MCLEOD: I wonder if it's possible to
5 just give us -- to combine those on one night, say
6 March 19th or something, and have the eco risk
7 assessment be the primary thing and perhaps just a
8 brief update.

9 Because I think we've been through the 101
10 twice. Most people here that are in the community
11 RAB were at Treasure Island. And if I understand
12 correctly, the same material was presented in our
13 December or January meeting where it shows the
14 process.

15 Is that what we're talking about?

16 MR. PONTEMAYOR: That is possible. One
17 problem, though, is the 19th of March training --
18 I'm sorry?

19 MS. CANEPA: I don't want to cut you off.

20 I just wanted to note that what was handed
21 out at the TI RAB training that some of you
22 attended I think last fall, it was handed out to
23 every RAB member tonight. So you have all of that
24 information.

25 MR. MCLEOD: That's my point. I think if

Page 47

1 we can maybe save some time, if we don't need to go
2 back and do that again, that's what I would like to
3 do. But if there are differences or changes, it
4 shouldn't take too long to update on us that. We
5 don't need a full-blown presentation.

6 MR. PONTEMAYOR: I will take that for
7 action and confer with Lee Saunders at San Diego
8 and kind of make the feel of --

9 MR. MCLEOD: Or whereas risk assessment is
10 something that we've had no experience with at all.

11 MR. PONTEMAYOR: Marcus.

12 MR. O'CONNELL: I don't think that what
13 happened at Treasure Island was at all
14 comprehensive, was my sense, from having read the
15 NCP and the CERCLA process, that it was not very
16 extensive.

17 It didn't go over -- into the details
18 about site investigations. It didn't go into -- as
19 we're talking about risk assessment and that kind
20 of thing. I guess I would like to know really
21 what's involved in RAB 101, have a few more details
22 on that. Then we could compare it with what
23 happened at Treasure island.

24 But I think we all recognize that Treasure
25 Island was rather skimming the surface on a lot of

Page 48

1 issues. I'd like a better technical background.
2 The second comment would be that the
3 training at Treasure Island, I think we should
4 ascertain how many people are going to be available
5 to go to Treasure Island on a weeknight for
6 training.
7 MR. PONTEMAYOR: Please be advised, this
8 is a regular RAB meeting for Treasure Island, so
9 there is a time constraint there.
10 MR. O'BRIEN: Do we know what time this
11 risk assessment will be conducted?
12 MS. CANEPA: I can find that out. I know
13 the presentation is scheduled to be 45 minutes long
14 with a 15 minute Q and A.
15 MR. PONTEMAYOR: Gil.
16 MR. RIVERA: Thank you.
17 I understand that we can also take that
18 same presentation and provide it at some other
19 time. Is that correct?
20 MS. CANEPA: Exactly.
21 MR. RIVERA: So it can be provided to this
22 RAB at a more convenient time.
23 MR. MCLEOD: Well, I don't know if it's
24 appropriate, but I would move that we do go for
25 that date that's already set up so that we don't

Page 49

1 have to waste resources. And it's not convenient
2 for us here, but I would be willing to go on the
3 19th.
4 MR. PONTEMAYOR: March 19th?
5 MR. MCLEOD: Yes.
6 MS. CANEPA: I think they are from 7:00 to
7 9:00.
8 MR. MCLEOD: So I make a motion that we
9 approve that date for at least the risk assessment
10 training.
11 MR. PONTEMAYOR: Second?
12 MR. O'CONNELL: I will second it.
13 MR. PONTEMAYOR: Moved and seconded that
14 the RAB members will go to the training at TI on 19
15 March in a regularly scheduled RAB meeting for that
16 organization.
17 Those in favor?
18 (Chorus of ayes.)
19 MR. PONTEMAYOR: The motion is carried.
20 What about for the other RAB training
21 offerings?
22 Marcus?
23 MR. O'CONNELL: Perhaps we could have the
24 human health risk assessment on the same date that
25 we go on a site tour, the 13th and 17th, if they

Page 50

1 are only about 45 minutes or an hour long, and kill
2 two birds with one stone.
3 MR. RAMSEY: Actually, the site tour was
4 going to be more than just one set of sites,
5 though.
6 MR. O'CONNELL: Okay. Maybe I am speaking
7 prematurely.
8 MR. RIVERA: My recommendation on the site
9 tour is because of the constraints that may be
10 placed on visiting a site, hours and so forth, that
11 it might be the best opportunity to visit more
12 sites than not and then leave another date for the
13 human health risk training.
14 Once again, similar to the ecological risk
15 assessment training, the TI RAB may be more mature
16 than this RAB, and their questions might be more
17 detailed down to the twig, as we say.
18 So it may be beneficial to go to the TI
19 RAB training and find out what the eco risk
20 training is, and if you want more training, by all
21 means let's do it.
22 MR. RAMSEY: What I was thinking, what you
23 may find out actually is that Treasure island is
24 going to have the same kind of habitats as the
25 weapons station has. We have a lot of marsh areas

Page 51

1 here, and Treasure Island does not.
2 It may be a good chance to kind of
3 dovetail with what an existing RAB -- just from
4 that standpoint, you have got a chance to hear some
5 eco/ecological risk discussions. They may not
6 answer all your questions. And that's a point
7 we'll always hear between the agency and Navy.
8 But maybe that -- at least the timing is
9 good to hit this 19th, potentially if that works
10 out with you folks, and able to get over to
11 Treasure Island and all that kind of stuff. And if
12 you don't feel like maybe at least kind of whet
13 your appetite or something like that, then if
14 nothing else -- and if there is something that you
15 may feel that's not that applicable, then we could
16 fill in the gaps.
17 MR. PONTEMAYOR: Thanks, Phil.
18 The next item on the agenda on
19 announcements is the site tour of the inland area
20 Sites 13 and 17.
21 Because the documents are already out
22 there for review, there is some expediency to see
23 the sites, I would assume, from the RAB members.
24 And I believe it was suggested by the
25 community co-chair to accelerate the site tour

Page 52

1 sometime this month on one Saturday. And the next
2 three Saturdays in my calendar are March 16, the
3 23rd, and 30th.

4 Do I hear a motion to consider or pick up
5 a site tour date?

6 MR. O'CONNELL: I make a motion that we go
7 on March 16th.

8 MR. PONTEMAYOR: Second?

9 MS. CANEPA: I have a question.

10 MR. PONTEMAYOR: Yes.

11 MS. CANEPA: Are we proposing a site tour
12 for just Sites 13 and 17 or 13 and 17 and the rest
13 of the inland area? I thought it was the latter
14 that we were proposing.

15 MR. PONTEMAYOR: Is there an amendment to
16 the motion to tour other sites in addition to 13
17 and 17?

18 MR. O'CONNELL: I will amend the motion.

19 As maker of the motion, I'd like to ask a
20 question of Mr. Ramsey. You suggested when we were
21 doing the round-robin call for agenda items that we
22 go over all the sites at one time and have a survey
23 of the sites.

24 Would it be possible for the regulatory
25 agencies and the Navy to dovetail that orientation

Page 53

1 with the actual tour so that we could -- yeah.

2 MR. RAMSEY: Well, the Navy would
3 typically -- they can do this more formal and have
4 some kind of presentation to describe the sites and
5 the work that has been done. And we would be more
6 than likely available to make sure, you know -- I
7 guess your idea is is there a balance toward --
8 with the agency site for these various projects.

9 I think it's very doable. We could
10 actually go -- the 9th, I guess spending three
11 hours at the landfill was quite an exception. It
12 was a lot of time. It's nice to spend that much
13 time. We don't have to spend three hours at each
14 IR site in the inland area, I don't believe.

15 In fact, some of these sites are pretty
16 small and they don't take that much time to drive
17 by and say a few words about them --

18 MR. PONTEMAYOR: Mary Lou.

19 MS. WILLIAMS: March 16th is the only
20 Saturday of the month that I am not available.

21 MR. O'CONNELL: What are the other dates,
22 Rudy?

23 MR. PONTEMAYOR: Well, the weekend for
24 this week is March 9th, and then followed by 16 --
25 I'm sorry. I'm reading the wrong month here.

Page 54

1 MS. CANEPA: That's right.

2 MR. PONTEMAYOR: They are the same,
3 though, fortunately.

4 So 9, 16, 23rd, and 30th.

5 MR. O'CONNELL: Well, maybe we should just
6 ask -- I will make the motion. I will ask, if it's
7 okay with the chair.

8 Who is available on the 9th?

9 MS. RYAN: Excuse me. I think our
10 technical project manager is not here tonight, Jim
11 Pinasco. I think it's important that he be able to
12 attend, as well, if possible. I think having it on
13 the 9th might be a little too soon for him to be
14 able to attend.

15 I'd just like to maybe suggest that you
16 have it a little further out so people can prepare
17 for it.

18 MR. McLEOD: I propose the 23rd.

19 MR. O'CONNELL: Let me ask, who is
20 available on the 23rd?

21 (Show of hands.)

22 MR. O'CONNELL: Are you available?

23 MR. RAMSEY: Yes.

24 MR. MEILLIER: I am not available until
25 April, I believe.

Page 55

1 MR. O'CONNELL: Who is available on the
2 30th?

3 (Show of hands.)

4 MR. O'CONNELL: Are you available on the
5 30th, Laurent?

6 MR. MEILLIER: No.

7 MR. O'CONNELL: When are you available?

8 MR. MEILLIER: Just in April. I am
9 actually on jury duty, as well.

10 MR. O'CONNELL: Pat, do you know when Jim
11 is available?

12 MS. RYAN: I will see him tomorrow, but I
13 can't speak for his availability. But I will
14 report to him tomorrow, tell him what went on
15 tonight, and let him know what you are suggesting
16 so he can get back to you as quickly as possible.

17 MR. RAMSEY: I would say we do our best.
18 As I said, you pick a day, we will try to do our
19 best to have somebody there. I will try to be at
20 least Saturday.

21 MS. RYAN: That's what I suggest. I think
22 Saturday, the 9th, is too soon, but if anything
23 after that that is agreeable to everybody else we
24 will try to make it work as well.

25 MR. O'BRIEN: Shall we shoot for the

Page 56

1 second Saturday in April, or is that too far out?
2 MR. O'CONNELL: I think that's too far
3 out, personally. I think you will have other site
4 tours you will want to do by that time.
5 I will amend my motion, and I am going to
6 say March 23rd, because what I am hearing is that
7 all the community RAB members plus at least one of
8 the regulators is available on that date.
9 MS. TANASESCU: I second.
10 MR. PONTEMAYOR: It has been moved and
11 seconded that the date of the tour will be on March
12 23rd, including all the IR sites in the inland
13 area.
14 Those who are in favor, please raise your
15 right hands.
16 (Show of hands.)
17 MR. PONTEMAYOR: Opposed?
18 (No hands raised.)
19 MR. PONTEMAYOR: Motion is approved. The
20 site tour is scheduled for March 23rd.
21 MR. O'BRIEN: Can we get some idea of the
22 time in duration?
23 MR. PONTEMAYOR: Would 9:00 assembly time
24 be okay for the RAB members?
25 (No response.)

Page 57

1 MR. O'CONNELL: Yes.
2 MR. O'BRIEN: For how long?
3 MR. BOSCHE: Four hours.
4 MR. PONTEMAYOR: We will spend a long time
5 on the particular site. We can probably do the
6 tour before lunch, so roughly three hours.
7 Thank you. We're back to the old
8 business.
9 How is our tape going?
10 (Break taken from 8:11 p.m. to 8:19 p.m.)
11 MR. PONTEMAYOR: Thank you.
12 The next item on the agenda is a
13 discussion by Gil of the Navy's organizational
14 chart.
15 Gil.
16 MR. RIVERA: Thank you.
17 If you look at your handout package today,
18 there is three pages, the front page of which is
19 the Navy Environmental Organization.
20 I have to admit to the RAB here that I had
21 never been asked for an organizational chart that
22 went from me all the way to the Secretary of the
23 Navy. So what I have turned up are three
24 organizational charts that are linked except for
25 one exception.

Page 58

1 So page 1, the Navy Environmental
2 Organization, starts with Secretary of the Navy
3 and, if you follow the arrows on down, goes to an
4 organization under the Chief of Naval Operations by
5 the code N45. Okay.
6 The N45 organization is page 2. It goes
7 from the director all the way down to Mr. Dave
8 Olson. And Mr. Dave Olson, if you will remember,
9 was at the RAB training that took place at Treasure
10 Island. That was for base closure activities.
11 Now, this is where the charts break down.
12 Between Mr. Dave Olson and my commanding officer
13 there is one other command; that would be the
14 commanding officer of southwest division of the
15 Naval Facilities Engineering Command.
16 So what I have to do is take the third
17 page, the Engineering Field Activity, West, and add
18 one more piece to it, essentially one more box that
19 would be -- the top box there would be the
20 commanding officer of southwest division.
21 So my boss's boss would be southwest, and
22 then it goes up to, as I stated, Mr. Navals (ph.)
23 and all the way up to Secretary of the Navy.
24 So there is one piece missing. And what
25 I'd like to do, as time allows, is to prepare one

Page 59

1 chart, hopefully one set of charts that includes
2 all the boxes in the right order and present that
3 to the RAB hopefully at the next RAB meeting. If
4 that's acceptable to the RAB, I will do that.
5 There was also a request for points of
6 contact, addresses, and telephone numbers. Okay.
7 What I can provide is, of course, the name
8 of the individuals who reside in these particular
9 offices, the general address for that person, and
10 hopefully a telephone number.
11 I have to be honest with you that most of
12 these organizations, like, for instance, if you
13 called Deputy Assistant Secretary for the
14 environment, you will not be able to contact that
15 person; you will wind up with who knows who.
16 But essentially I can provide that
17 information. And it will be, I guess, an
18 accompaniment to these particular charts and will
19 be of some use to the RAB in that case.
20 So again, I apologize, but it has been a
21 learning experience for me, and I will smooth this
22 out and get it to the RAB.
23 MR. PONTEMAYOR: Thanks, Gil.
24 The next item would be the TAPP
25 presentation by Gil.

Page 60

Page 57 - Page 60

1 MR. RIVERA: Now, according to the agenda,
2 I have got five minutes. I have also got 18
3 slides, so patience. Not really.

4 My presentation here is Guidance For
5 Community Members of the Restoration Advisory
6 Boards. That's pretty much self-explanatory.

7 I'd like to give you some basic authority
8 for the TAPP.

9 The authority for the TAPP comes from
10 Title 10 of the United States Code, Section
11 2705(e). In other words, the TAPP is codified; it
12 is federal law. We are allowed to fund it and
13 pursue funding and also pursue -- or allow funding
14 rather, and also pursue the, shall we say,
15 contracting for technical support.

16 Those are the two basic legal authorities
17 for TAPP, both the authority to do the TAPP grant
18 and also for funding.

19 There is a final rule promulgated for
20 TAPP, and it's in the Federal Register. I didn't
21 include this reference -- or rather this
22 particular -- yeah, this reference under this
23 particular slide, but I can provide that, as well.

24 What is TAPP? It essentially provides
25 technical assistance for public participation.

Page 61

1 It's to provide independent assistance in
2 interpreting the scientific and engineering issues
3 regarding the nature of environmental hazards and
4 restoration.

5 Now, this is taken directly from the
6 Federal Register. It's not an exact quote; I'm
7 paraphrasing, because the quotes are actually quite
8 long in the Federal Register.

9 The goal is to enhance the public's
10 ability to participate in the decision-making
11 process by improving their understanding and
12 knowledge of the overall conditions of the site as
13 well as the technical requirements posed by the
14 site.

15 Again, this is pretty self-explanatory.

16 Who is the TAPP for? It is for the RAB,
17 essentially. It is part of federal law, and it
18 specifically addresses the members of the RAB, the
19 community remembers of the RAB, the residents of
20 the community affected by the installation. And
21 they must demonstrate a need for technical
22 assistance.

23 I think these are two particular items
24 that are fairly easy to document. I think the
25 needs are there, and I will go into that a little

Page 62

1 bit further on this presentation.

2 TAPP limits. This is important. TAPP
3 expenditures are limited to an annual maximum of
4 \$25,000 or 1 percent of the cost to complete,
5 whichever is less, and a lifetime of \$100,000.
6 Meaning that if you use, obviously do the math,
7 \$25,000 dollars a year, in four years you will have
8 maximized the TAPP grant. You will be not be
9 allowed to acquire any additional funding.

10 Now, there are waivers granted by the
11 discretion of the Deputy Assistant Secretary of the
12 Navy. I have never heard of a RAB going for a
13 waiver, not to say it can't be done. In my limited
14 experience here, I haven't seen anyone request a
15 waiver for the TAPP grant.

16 One thing that is very important is the
17 TAPP funding comes from naval weapons station
18 project funds. In other words, if I'm going to
19 fund the RAB -- or rather the TAPP grant -- or I'm
20 sorry, it's not a grant.

21 If I am going to fund the TAPP effort, it
22 comes directly from the budget that I have for this
23 year. So if we have, for instance, a \$25,000
24 ceiling, I have to take that money from the money
25 that I have appropriated for work this fiscal year

Page 63

1 for Concord.

2 Again, it's not a grant or direct funding
3 to the RABs. There is no separate allocation for
4 the program, meaning that there is no line item in
5 the budget that says, hey, this is for TAPP. I
6 have to take it from my project money.

7 And finally, I guess the plus in these
8 three minor bullets here, these subbullets, that
9 there is no competition with other activities for
10 funding. In other words, for whatever request the
11 RAB comes up with for TAPP assistance, you don't
12 have to compete with a TAPP say for Treasure Island
13 or any other activity. It comes strictly from the
14 budget at Concord Weapons Station.

15 This is one of the key elements, the
16 criteria for the TAPP. This is taken directly from
17 the rule, and I am going to read it so I don't miss
18 any of the words.

19 "The RAB demonstrates that the Federal,
20 State, and local agencies responsible for
21 overseeing environmental restoration at the
22 installation do not have the technical expertise
23 necessary for achieving the objective for which the
24 technical assistance is to be obtained."

25 It sounds like you are dead in the water.

Page 64

1 It sounds like, gee, you have got the EPA, the
2 DTSC, the DoD, you've got all the expertise, sorry,
3 you don't qualify. You look here, there is an
4 "or," and I bolded it, although it doesn't really
5 stand out that much.

6 But there are two other elements that go
7 along with it. The primary driver with Statement
8 No. 1 here is that DoD and EPA would like the RAB
9 to look at what resources are available at no cost
10 or little cost to the RAB; meaning that you have
11 the UC system. They have all kinds of scientists,
12 whatever.

13 There are other public interest groups
14 that are more than willing to provide support. So
15 we should look for things that are free, no cost to
16 the RAB that we can do first before we start
17 looking for TAPP money.

18 Okay. This is the "or" part.

19 "The technical assistance is likely to
20 contribute to the efficiency, effectiveness, or
21 timeliness of environmental restoration activities
22 at the installation."

23 Number 2(a), easily fulfilled by the
24 request for TAPP assistance.

25 And (b), "Is likely to contribute to

Page 65

1 community acceptance of environmental restoration
2 activities at the installation."

3 That goes without saying. If you know
4 what's going on, what the particular science, the
5 technicalities of the site, the physical conditions
6 and so forth, and you have someone to explain that
7 in layperson's terms -- not to say that there
8 aren't some people here who are well educated in
9 environmental restoration and things of that
10 nature, but we are all not at the same knowledge
11 level.

12 (b) is one of the better points, as far as
13 achieving or the request for obtaining the TAPP
14 assistance.

15 Eligible projects. Of course, this is not
16 all-inclusive, but it does include some of the
17 things that the RAB has been concerned with to
18 date.

19 Interpretation of technical documents.

20 Review of proposed restoration
21 technologies.

22 Participation in relative risk site
23 evaluations. Okay. Relative risk, that's
24 something we haven't touched upon in the RAB as
25 yet. Relative risk is a process whereby you weigh

Page 66

1 the risks of the various sites against itself.

2 In other words, I have a site -- unknown
3 site. I don't know what's there. It's just a
4 stake in the ground. The vegetation is dying. The
5 relative risk is high. Why? Because I know
6 nothing about the site. We could be dealing with
7 some real hazardous materials.

8 Once I go out to the site and I take my
9 preliminary sampling and I find out what's on the
10 site per se, what type of contamination it is,
11 perhaps it's a legally applied pesticide that was
12 supposed to kill the plants. So the relative risk
13 on that particular site decreases for that reason.

14 Now, granted, there is a lot of nuances to
15 that. There is a lot of things that have to be
16 considered. But like I say, relative risk is one
17 of the things that, like I said, we haven't
18 addressed as a RAB as yet.

19 Also, increased understanding of the
20 health and environmental implications of sites and
21 cleanup strategies.

22 And certainly last, but not least,
23 training as appropriate.

24 So there are TAPP assistances available
25 for eligible projects like this.

Page 67

1 Okay. Ineligible projects.

2 Of course, political activity goes without
3 saying. Litigation or underwriting legal actions
4 against the Department of Defense are not allowed.

5 Generation of new primary data, meaning
6 going out and sampling any site and generating
7 data.

8 Reopening the final Department of Defense
9 decisions or conducting disputes with the
10 Department of Defense.

11 Epidemiological studies such as blood or
12 urine testing are not funded by TAPP.

13 And last but not least, community outreach
14 is not funded by TAPP.

15 Just a quick process chart here.

16 Essentially where we are now is the RAB has
17 determined the need and is moving forward to -- in
18 preparation of the application for the TAPP. They
19 are going to submit to the DoD co-chair, who will
20 provide assistance.

21 Now, we do have other people at EFA West
22 who can provide assistance and information, among
23 them Mr. Tom Pinard.

24 There is also an RPM that helps me part-
25 time, Tony Tokay (ph.), who has experience in

Page 68

1 preparation of TAPP applications. So the
2 assistance is there. So once we get ready to
3 submit the application, it goes to the DoD co-chair
4 and back to the RAB once it's in its final form.
5 The application has to be prepared, to be reviewed
6 and forwarded to the installation commander.

7 The installation commander -- I have to
8 rely on Rudy on this. I don't know if that would
9 be the officer in charge at Concord or the actual
10 commanding officer at Concord who resides at naval
11 weapons Seal Beach in Southern California. That
12 remains to be determined, but it should not be a
13 problem.

14 Now, process purchase orders, okay. Here
15 is where it gets complicated. This is where we
16 have to comply with the Federal Acquisition
17 Regulations. I'm not a contracts person. I don't
18 do that. There is volumes and volumes of stuff
19 that they have to comply with.

20 But for your information, process purchase
21 orders. If you have a request for \$2500, they can
22 go out to a -- the contracts people can go to a
23 sole source and say, sole source, here is \$2500,
24 give me a document review, give me a presentation,
25 whatever the case may be.

Page 69

1 Once you exceed that amount, you still use
2 the purchase order, but now you have to deal with
3 the FAR. You have to prepare a scope-of-work cost
4 estimate. You have to advertise. You have to have
5 both of the selection processes.

6 You have to weigh all the proposals once
7 you get them back from the various organizations
8 seeking to do business with the Navy, evaluate
9 them. And the Navy makes a determination what is
10 the best bang for the buck that we're getting from
11 a particular contractor.

12 The Navy will perform what's called COTR
13 duties, Contracting Officer Technical
14 Representative duties. That is -- I have been a
15 COTR before, and it's not a good place to be
16 because you deal with a lot of contract scopes.
17 And people want, shall we say, a Cadillac and you
18 have only funded for a Ford, so you have to bring
19 those together and urge them to try to achieve
20 something that satisfies both parties.

21 The COTR, along with the contracting
22 officer for the Navy, will obtain the assistance,
23 technical assistance support, whatever the case may
24 be, and then the COTR will also make sure there is
25 a closeout report, there is a DoD report. And

Page 70

1 finally all the efforts of the TAPP are documented
2 and provided in the Annual Report to Congress.

3 Now, as you can see, there is various
4 steps, and you move up and down through the
5 process. The most rigorous part of this lies up
6 here in the top, where the RAB has to prepare the
7 documentation for the request for TAPP assistance.

8 The rest of it, you know, the evaluation
9 of the eligibility, the purchase order, the COTR
10 duties, things of that nature, you know, awarding
11 the contract and things of that nature, is what EFA
12 West does. Okay. That's what part of the
13 organization that EFA West does for a living.

14 So you have to rely on the contracts
15 person. They will not steer you wrong. They will
16 try to get you the most bang for the buck, and they
17 will do it the right way, so you won't have an
18 audit later on and you will get a request for a
19 personal check to help say restore the funds to the
20 federal government because we did something
21 illegal.

22 So they make sure that we don't make those
23 mistakes. It's all in the process. We can do that
24 and it's not a problem. And we can move
25 expeditiously once we get the front part of that

Page 71

1 done: The needs determination, the preparation of
2 the application, the review, the evaluation of
3 eligibility, and so on.

4 Now, the key sections to the application
5 are -- of course, 1 and 2 aren't here. They are
6 basically the name of the installation and who is
7 requesting the TAPP assistance, which is
8 essentially the RAB.

9 There are other sections that are pretty
10 self-explanatory, with a section of certification
11 of majority request. Okay. The RAB has to
12 document that the request for assistance from the
13 TAPP comes from the entire RAB; that no one
14 individual says I want to study rainfall in the
15 north 40 of Concord over the last millennium or
16 something of that nature.

17 The study of the funding doesn't go to
18 anyone in particular -- one person. So we seek
19 input from every member of the RAB as an
20 individual. And in the process of speaking to all
21 of the individuals with RAB, they reach consensus,
22 that's great; that's good.

23 Like I say, the rest of this is pretty
24 well explanatory. And I will go through some of
25 the probably -- or some of the requisites for

Page 72

1 qualifications of providing the assistance. Most
2 of these are pretty clear. You know, the technical
3 assistance has to be someone who knows what they
4 are doing. Essentially, they have a knowledge of
5 hazardous or toxic waste, they have the training,
6 they have the educational credentials, things of
7 that nature.

8 They do have the experience, they have the
9 appropriate certification and so on, and that they
10 have the ability to translate technical information
11 into terms understandable to lay persons. That is
12 very key.

13 Not -- like I said earlier, it's not to
14 speak down to anyone, but it's to bring everybody
15 up to the same level of understanding. The best
16 place to do that -- the best way to do that is to
17 explain it and to translate what's being done, the
18 technicalities of the reports, to the various
19 individuals.

20 There are some optional provider --
21 optional qualifications for providers. Of course,
22 experience, demonstrated writing skills. You want
23 somebody who can put the words down on paper and
24 they are understood by the RABs to come. They know
25 what happened on the site.

Page 73

1 And preferred is previous experience
2 working with individuals or groups of individuals.
3 You don't want someone here who has extremely good
4 technical knowledge but can't relate that to you in
5 a sufficient manner to where you all are
6 understanding of what the issues are.

7 This pretty much reiterates what I stated
8 earlier, that the TAPP application should be
9 submitted as soon as they are ready; that the
10 acquisition, the administration of the contract is
11 done by EFA West for the RAB; and that the services
12 are acquired using purchase orders.

13 And one key element there is primarily for
14 small business. Small business is not what you
15 really think. The qualifications for small
16 business are based on dollar value of the
17 organizations doing the work. Small business is up
18 in the millions of dollars.

19 So you are not working on -- this is not
20 saying that we are limiting this to organizations
21 of let's say three, four people who can do the
22 work. We're actually looking at some organizations
23 with proven track records with the appropriate
24 staff to provide the review and to provide the
25 requirements or to provide the services that are

Page 74

1 required by the TAPP.

2 I know my five minutes are up.

3 There is also a tasker at the end of the
4 project, at the end -- once the effort for the TAPP
5 is expended. This is the paperwork. It is not
6 complete until the paperwork is done, which is
7 essentially disseminating the information in the
8 RAB reporting. As I stated earlier, all the
9 reports go up and they are included in the annual
10 Report to Congress.

11 Potential TAPP roadblocks. The
12 installation commander can state that he does not
13 approve a TAPP project. Now, that is rarely the
14 case, but it can happen. The installation
15 commander may feel that U.S. EPA may best provide
16 services or maybe the CLEAN contract or whatever
17 the case may be, or maybe some Navy entity.

18 Maybe Environmental Health Center, which
19 is well known throughout Navy, and they do a lot of
20 word on a lot of sites. They have a lot of
21 toxicologists there who are Ph.D. level, and they
22 do have quite a track record and they understand
23 Navy sites. They know what happened on the Navy
24 sites. They know what we deal with, and they can
25 deal with the questions coming up regarding the

Page 75

1 processes that took place.

2 The other one is, for instance, the Navy
3 believes that the TAPP project could be provided
4 from available resources, meaning the UC system.
5 There are some people there who do research and so
6 forth that could provide the available resources,
7 the information that TAPP requests.

8 The RAB cannot agree on the scope of work
9 for the requested services or the RAB cannot agree
10 on the preferred or selected provider.

11 Now, my recommendation as far as providers
12 go, if you have one primary provider you should
13 list that group of individuals or individual, but
14 you should always come up with at least three, two
15 or more, right? Three. That is the best position
16 you can be into. If you don't go to No. 1, you can
17 always look at 2 and 3. It actually puts you in
18 the better position as far as rewarding the work.

19 There is an appeals process if the TAPP is
20 not approved by the activity commanding officer.
21 The appeal would go through EFA West for no more
22 than two weeks. It would then go to Naval
23 Facilities Engineering Command for 30 days and so
24 on, up to the Deputy Assistant Secretary of the
25 Navy.

Page 76

Page 73 - Page 76

1 Now, as I have stated earlier, I have
2 never seen an appeal have to take place, because
3 for the most part the requests are granted. Not to
4 say you could submit anything and get it funded,
5 but that's something to consider. If you are
6 realistic about the request, you more than likely
7 will get it approved.
8 So TAPP process, finally. Last line,
9 "Submit TAPP applications to Navy," directly to the
10 RAB co-chair, Mr. Rudy Pontemayor. And the TAPP
11 point of contact for Navy is the Navy RAB co-chair.
12 As I stated, EFA West, myself included,
13 the public affairs person, as well as one of the
14 RPMs who have experience, preparation of TAPP
15 grants will provide assistance directly to the RAB
16 as requested.
17 So that ends my five-minute presentation.
18 I apologize for taking so long.
19 Are there any questions?
20 MS. TANASESCU: You mentioned twice now
21 about UC personnel or UC resources being
22 available. Do you personally know of anyone or a
23 set of people that you could recommend for us to
24 contact?
25 MR. RIVERA: Yes, I could. I will have to

Page 77

1 search through the files. We have worked directly
2 with the UC system on various innovative
3 technologies. I don't remember their names off the
4 top of my head, but they did a lot of work at
5 Alameda, for instance.
6 So the Navy does work with a lot of
7 universities and so on.
8 MS. TANASESCU: If you could provide us
9 with a list in the future, that would be great.
10 MR. RIVERA: I will do that.
11 MR. PONTEMAYOR: Go ahead.
12 MR. O'CONNELL: Two questions.
13 The amount of money available is equal to
14 25,000 or 1 percent of the cost to complete.
15 MR. RIVERA: Whichever is less.
16 MR. O'CONNELL: Right. But does not 1
17 percent kick in at this site, or there is a ceiling
18 of \$25,000?
19 MR. RIVERA: It's 25,000 right now.
20 MR. O'CONNELL: The second question is,
21 how does certification of majority document -- and
22 the reason I ask that question is we have set up a
23 TAPP committee, and if that TAPP committee were to
24 come up with a complete draft application for
25 consideration by the RAB members, could we consider

Page 78

1 that by e-mail and get people to sign off by e-mail
2 rather than wait 30 days to bring it back to the
3 full RAB?
4 MR. RIVERA: In today's climate, e-mail is
5 considered an official correspondence. So I am
6 presuming, based on that statement, that you could
7 reach consensus via e-mail. However, some people
8 may want to discuss the issues, and I wouldn't say
9 that e-mail is the last word. If it needs to be
10 discussed, it should be brought up again.
11 MR. O'CONNELL: Thank you.
12 MR. RIVERA: To fully answer your
13 question, if you look at the final rule for TAPP --
14 like I say, I didn't bring the cite on the Federal
15 Register -- in there you could find the detailed
16 explanation how you do the certification and what's
17 required. It's relatively simple, but it is
18 there.
19 MR. COOPER: This is David Cooper, U.S.
20 EPA.
21 Since you brought up Alameda, Alameda used
22 the TAPP program at least once, if not twice. In
23 other words, they actually identified a private
24 contractor to do an independent look at a document
25 or two.

Page 79

1 So if you are going to contact Alameda
2 anyway or if you are going to contact a college
3 based on their work at Alameda, you might want to
4 talk to one of the community members of the RAB and
5 find out which contractors they used and whether
6 they were happy with them.
7 That would be another resource.
8 MS. RYAN: The Alameda RAB meets the first
9 Tuesday night of every month at Alameda on the
10 facility. It's pretty easy to get to. You can
11 contact Steve Eddy, who is the Navy liaison both
12 for Treasure Island and also Alameda. He has an
13 office at Treasure Island. I'm sure he could help
14 you out, as well.
15 MR. HAWELL: My name is Bill Hawell,
16 H-a-w-e-l-l.
17 On this ineligible projects you said that
18 reopening the final DoD decision or conducting
19 disputes with DoD is an ineligible project.
20 Would the Record of Decision to be
21 considered fall within the definition of a final
22 DoD decision?
23 MR. RIVERA: That is correct.
24 MR. HAWELL: Thank you.
25 MR. RIVERA: Again, that's specifically

Page 80

1 stated in the final ruling of the Federal Register.
2 Any other questions?
3 MR. PONTEMAYOR: Gil, just a point of
4 information for Gay. Yes, there were a number of
5 projects on the station that were undertaken by
6 University of California at Davis. There was also
7 a project conducted by the University of Arizona.
8 So the extension service is available to
9 help out in many of these scientific surveys and
10 studies.
11 Wrapping up the old business agenda will
12 be Mr. Phillip Ramsey and Mr. Laurent Meillier. We
13 will start with Mr. Ramsey regarding comments --
14 MR. RAMSEY: Right, I know. The joke in
15 there. Thank you.
16 I know that the RAB members had asked us
17 just to briefly say a few words about our agency
18 comments on the Site 1 landfill. And again, I can
19 do this relatively briefly.
20 Back again on the 9th, we spent probably
21 three hours with just about everyone here, I
22 believe, and probably a few more people standing at
23 the landfill site had a chance to talk.
24 So I'm just, again, elaborating very
25 briefly on comments I said to the RAB members. I

Page 81

1 have provided copies, EPA's letters on the --
2 again, we were commenting on a revised draft final
3 Record of Decision for the Site 1 landfill.
4 On December 10th, EPA wrote our comment
5 letter on that draft final Record of Decision. And
6 in general, we have two concerns with the Navy's
7 proposal, and those concerns were with the ground
8 water. And we do have some concerns that we'd
9 like to continue to look at, probably will have a
10 discussion with the Navy.
11 We'd like to see some more sampling done.
12 It has been a number of years since the wells that
13 are installed in that landfill were sampled. So
14 given the fact the Navy was proposing a no-action
15 for the ground water, we just prefer to hold off on
16 that decision.
17 Until there is nothing we gain by signing
18 off, we'd like to look at the aspects a little
19 closer before we jump to a decision. So the ground
20 water is one aspect.
21 And the other is it's a specific design of
22 the landfill cap. I think it is important to point
23 out to the RAB members where the agency does see an
24 agreement with the Navy, and we believe this has
25 been an agency position for years and years out

Page 82

1 there.
2 For this landfill -- again, for all you
3 folks -- some people are new to the group, Navy --
4 and we don't have a map. It would be nice, I
5 guess, if we had a map or something. We could show
6 folks what we're talking about.
7 Again, a lot of you folks were out at the
8 landfill. It's about a 10-acre landfill that sits
9 right out on the Sacramento right on the marsh.
10 The agencies have, in general, supported the idea
11 that -- some kind of a containment to cap the
12 landfill.
13 So there has been discussions about, you
14 know, do you dig it all up. We've agreed with the
15 military that, given the size, risk, hauling away
16 such a large landfill, there is risk to people in
17 trucking this across the communities, what have
18 you, that it would be acceptable to do a cap.
19 We're having discussions about the kind of
20 design that's associated with that cap. And that
21 is also tied in with is it a hazardous waste or a
22 solid waste landfill. And we expect to have those
23 discussions, also.
24 So right now we have a letter out. It's
25 all pretty straightforward. Again, those are the

Page 83

1 two high points of EPA's comments, the type of cap
2 and the need to do some additional ground water
3 monitoring and some sampling out there before we
4 rush into a decision.
5 We had proposed to the Navy to carve out
6 essentially, we call that, that ground water
7 decision from this Record of Decision, so making it
8 go from a -- changing it from a Final Record of
9 Decision that deals with both the landfill, the
10 solids on the cap, you know, sitting physically up
11 on the surface of the marsh, and the ground
12 water -- we had proposed to take the ground water
13 out of the decision to allow the regulators and the
14 Navy to continue to look at that aspect, then
15 decide if there is an action or not that would need
16 to be taken.
17 There may not. We would just like to get
18 some information and look at that a little bit
19 closer, and then work through these discussions
20 with the Navy about the type of cap.
21 So right now we've provided this
22 information, our formal response to the Navy, and
23 their response at this point is to develop a
24 written response to us. And so kind of similar to
25 what EPA needed to do, we were required to actually

Page 84

1 kind of formulate our position in writing.
2 We're essentially allowing the Navy to do
3 the same thing. So they are in the process of
4 formalizing their response to the agency on our
5 comment letter. Expect this actually very soon.
6 This is not on kind of a one-month. We should be
7 getting this probably within a couple of weeks, I
8 believe.
9 And that's where we are for Site 1
10 landfill.
11 MR. PONTEMAYOR: Thank you.
12 Laurent.
13 MR. MEILLIER: My name is Laurent
14 Meillier.
15 MR. MCLEOD: Questions before we go on?
16 MR. PONTEMAYOR: Yes.
17 MR. MCLEOD: I have got a couple
18 questions.
19 I am not a technical person, so I can't
20 ask a technical question. This is -- as a resident
21 in the area and someone who has got some knowledge
22 and background of the land here, this is really
23 what I want to know: Does this remedy -- I am
24 going to ask four or five questions. Don't try to
25 answer them all.

Page 85

1 Does this remedy protect the bay and the
2 wetlands? That's the first question. Does this
3 remedy restore the land to the condition in which
4 the Navy found it? Will the site be restored to a
5 condition where it would be usable by the community
6 and for what?
7 And I guess the other question that was
8 brought up by one of your comments, you are still
9 talking to them about whether this is a hazardous
10 waste site or a generalized dump. When I read the
11 testing that had been done, I got the impression
12 that there hadn't been a whole lot of drilling
13 right actually in the dump itself.
14 As a nonskilled person, that seemed
15 inadequate. It didn't seem like -- as someone who
16 really is concerned about what happens, is that
17 what falls under the category of presumptive
18 remedy? You assume something is there, but you
19 really don't want to dig down because it's too
20 dangerous?
21 Answer as many of those as you can.
22 MR. RAMSEY: Okay. I will try to click
23 through here.
24 Protective to the bay, I think that's one
25 of the aspects right now why we have asked to delay

Page 86

1 the ground water decision. Again, what the ROD was
2 proposing was no action dealing with ground water,
3 including any leachate that would be coming from
4 this landfill.
5 There is nothing -- alarms going off in
6 terms of the detections that have been found in the
7 ground water. They are very minor. We've also --
8 a lot of us are relatively new. I have been on
9 this base about a year now, Mr. McLeod, but we're
10 all coming up to different projects as we have been
11 encountering these different studies.
12 And the one large gap, I believe, was the
13 fact that we had about three years on the ground
14 water monitoring well network out there that was a
15 bit of a problem. We'd like to see those sampled
16 again to verify we've got some relatively
17 consistent and low readings.
18 It's going to make it easier for us to
19 proceed in dealing with ground water once we have
20 some new information and we're better assured of
21 the ground water network that's out there.
22 So I guess we have the ground water area
23 that we've asked a delay. So there is one aspect.
24 I mean, what's the transfer of the contaminants?
25 They are actually washing off the landfill, because

Page 87

1 you have waste essentially right up on the surface
2 of the landfill.
3 This is one reason why we're trying to
4 proceed with a cap. This is something that the
5 agencies have been talking to the Navy about for
6 probably three or four years, about getting this
7 remedy started.
8 Right now what you have out there is a
9 landfill sitting with waste essentially right on
10 the surface that could wash off when it rains or
11 you have some surface loads that are washing away
12 soil particles that may have contaminants absorbed
13 into those particles.
14 So right now we have kind of the worst-
15 case situation where the landfill is just sitting
16 out there. That's why we're trying to proceed
17 where we can with getting this cap put in place,
18 sealing the surface so you no longer have soil
19 particles potentially washing off into the marsh.
20 So right now we have the worst-case
21 situation. We're trying to resolve that by taking
22 an action.
23 Used by the community. The Navy proposed
24 to the ROD that this may be used for some kind of
25 recreational purpose. We've actually asked that

Page 88

1 that not be done. Because it is a landfill, there
2 is likely hazardous waste, some kind of potential
3 explosives that may be disposed in this landfill.
4 So generally the landfill, unless you have
5 done the soil sampling and risk characterization,
6 you wouldn't expect that kind of reuse,
7 recreational. Again, we -- for this base, because
8 it's an operating base, we have it a little easier
9 for us.
10 Because we look at the site and say what
11 is it now and, based on what it's being used for
12 now, is the presumed long-term reuse. And for a
13 landfill with limited access and with no real
14 chance for that to change, you know, things would
15 be protected.
16 There would be concerns if there would be
17 some kind of recreational, and EPA actually has
18 procedures. We can go through risk assessments to
19 assess and actually go and calculate what would be
20 the risk to a human once we have a better sense of
21 what kind of reuse that is.
22 Even in a recreational scenario, there is
23 various things of scientists going out to a site
24 versus people going out to a park to have
25 weekend -- kind of for recreational activities.

Page 89

1 Those have different scenarios in terms of the risk
2 exposures.
3 But in general, we're against these kinds
4 of recreational use, because again, what's out
5 there. It's weapons station and a landfill that
6 has very limited access. And so the cap would be
7 protective to the human health, given that kind of
8 limited access reuse.
9 MR. MCLEOD: So let me make sure I
10 understand what you said. Essentially, the Navy is
11 not going to restore it to the condition it was
12 before they got here; and, two, it's not going to
13 be usable for really anything except perhaps
14 testing by military or --
15 MR. RAMSEY: If it becomes a landfill that
16 you monitor and you protect and you ensure that the
17 cap is not being damaged or not allowing some
18 infiltration. You have to monitor for animals,
19 things like that.
20 So unless somebody has gone in to do the
21 risk assessment, if there is an off-gassing, a
22 methane threat or not for people to be barbecuing,
23 something like that, we need to have those kinds of
24 risks assessed. Given that that landfill has
25 extremely limited presence of people, given that

Page 90

1 current reuse, then a cap would be acceptable.
2 In fact, these are acceptable and we go
3 back -- and this is what the presumptive remedies
4 is. We look -- have gone back and looked at X
5 number of sites that have had decisions, and they
6 kind of evaluate what are the kind of decisions.
7 Once those landfills become bigger than a
8 couple acres, they typically are not dug up and
9 hauled away. Some kind of either a cap or nothing
10 or monitoring was done.
11 MR. MCLEOD: Then if the Navy were to
12 eventually close the facility, would they be making
13 mitigation to the community for the destruction of
14 the land or what?
15 MR. RAMSEY: Well, there is aspect in
16 terms of a natural resource damages and dealing
17 with the natural resource trustees, which is not
18 U.S. EPA, for these kind of things.
19 You also asked about the legal
20 description, and that's something -- it really is a
21 legal issue that -- we've raised this and we're
22 waiting for the Navy to consider. Again, what
23 happened for these landfills -- and your issue is
24 right. They did come and make Swiss cheese,
25 perforate this landfill.

Page 91

1 And it is within EPA's presumptive remedy
2 guidance and knowledge of landfills that provided
3 we want to make sure if there were hot spots. And
4 there is a known area. We have a treasure map, for
5 example, that said we've seen this at other larger
6 landfills in the Bay Area.
7 Right. The four truckloads of some kind
8 of munitions at Alameda or where there is radiation
9 and some radioactive materials disposed in a
10 specific area. We want to know about those things.
11 But it appears that at this landfill
12 things are mixed up, and therefore, you don't
13 have -- we don't have a hot spot of organic
14 solvents or hot spot of metals. In fact, they are
15 all mixed up within this landfill.
16 And therefore, there is no easy way to
17 deal with them. You either dig them all up and you
18 expose the workers and communities to truck this
19 material out, to take it from one site to another,
20 or you contain it and monitor where it's located.
21 MS. RYAN: Phillip, in the interest of
22 time, I'd like to suggest that perhaps you could
23 continue this discussion after the meeting, because
24 a lot of this is what we went over at the tour.
25 And not to diminish the importance of your

Page 92

1 questions, they are great questions --
2 MR. MCLEOD: That's all I had.
3 MS. RYAN: They are great questions. I'm
4 just suggesting that maybe we could go over it
5 later.
6 MR. PONTEMAYOR: Marcus.
7 MR. O'CONNELL: I have two questions.
8 When we were on the site tour, we went by
9 Otter Slough, and there was a pipe from Otter
10 Slough into the wetlands where the Title 1 site
11 was.
12 And the pipe was apparently clogged. If
13 the pipe were functioning, there would be
14 apparently a great deal of tidal action within the
15 wetlands immediately adjacent to the site. I
16 wonder, has the EPA considered what the impact will
17 be when the function of that pipe is restored?
18 MR. RAMSEY: Well, we're just getting a
19 document -- you are talking about now the R area
20 Site 2 which is adjacent to this landfill --
21 MR. O'CONNELL: Well, the whole area is
22 adjacent to the center of all these sites.
23 MR. RAMSEY: But the pipe you are talking
24 about draining into, the R area disposal site, Site
25 2. And we're receiving this -- we have received

Page 93

1 this ecological report that's going to be a
2 supplement to the RI that's being wrapped up for
3 those sites.
4 We're looking at those information. I
5 mean, that's basically all I can tell you at this
6 point. We're looking at those things. We saw some
7 things at the site tour, including a drain, and
8 there is some communication of the surface water
9 from R slough.
10 MR. O'CONNELL: Okay. Then on -- the
11 second question has to deal with presumptive
12 remedies, going back and looking at the history of
13 how presumptive remedies were instituted. The EPA
14 looked at a number of sites and said, okay,
15 something like three-quarters of these sites have
16 been remediated by using a cap. But none of those
17 sites were wetlands. That's Point No. 1.
18 Point No. 2 is when I go and look at the
19 EPA guidance on use of presumptive remedies, they
20 have a flow chart that has a number of questions
21 before a presumptive remedy is determined to be
22 correct.
23 One of the questions is, is it in a
24 wetlands? And if the answer is yes, the
25 presumptive remedy is not recommended; it actually

Page 94

1 is precluded. And I'm wondering why the
2 presumptive remedy is allowed here but it isn't
3 back in a wetland.
4 MR. RAMSEY: Yeah, it's true. I mean, you
5 look at the guidance and sometimes I, you know,
6 could see like not quite as straightforward as one
7 may expect. But nonetheless, this presumptive
8 remedy has not been around all that long. I
9 believe there has actually been discussions in the
10 interest on the part of EPA working with the Navy
11 to potentially do something out there at that
12 landfill as this guidance was being developed.
13 But we also look and say presumptive
14 remedy can be -- it limits the number of
15 alternatives that one has to sometimes evaluate
16 when you do a feasibility study. We can look at a
17 landfill out there and say regardless, if we hadn't
18 have done it, if somebody wasn't -- presumptive
19 remedy, they didn't do a focused feasibility study,
20 were there some other alternatives that would have
21 been evaluated that were not evaluated.
22 And right now there is no alternatives
23 that we're thinking of that weren't in the
24 feasibility study.
25 So I mean, while it's true -- I mean,

Page 95

1 Marcus, I look at that, right. We sometimes don't
2 have -- it's not as easy to say why do people
3 and -- here it is right here in presumptive
4 remedies, if it's in a wetlands or if it contains
5 some kind of special munitions military waste, were
6 all these things done.
7 Sometimes it's not the clearest looking
8 back, and that's what we're doing is we're looking
9 back into different times and things like that.
10 But we also recognize right now there is no other
11 alternative that we would be thinking -- what has
12 to be done if some kind of action is going to be
13 taken out there.
14 The one with the ground waters -- and we
15 believe there was some ground water extractions,
16 ground water containment would have to be done if
17 there is some kind of leachate problem. So we need
18 to look at the ground water to see if there is any
19 problems and then verify.
20 Again, we're at the last process of the
21 circle process of establishing the decisions.
22 We're going to be checking and we have some
23 questions about ground water, but at this point
24 there is nothing that's saying, clearly we didn't
25 evaluate some kind of a pump and treat. If there

Page 96

1 is going to be some real big problems with ground
2 water, it is going to be some kind of pump and
3 treat to contain that ground water to prevent it
4 from going somewhere.

5 But we're also hearing from our geologists
6 that there is lots of fine grain deposits, and in
7 general ground it water doesn't move very fast.

8 Pat is shaking her head.

9 That's why, again, I didn't mean to spend
10 a lot of time on this. I apologize, folks. You
11 are asking questions. I feel like I'm here to
12 answer the questions. I really did feel that we
13 spent three hours out there on Saturday walking
14 with everybody.

15 I hope if you haven't had a chance to
16 get -- put Laurent on the spot here, let him share
17 some of the spotlight to talk about the Water Board
18 comments on Site 1.

19 MR. O'CONNELL: I have got one more
20 question.

21 If presumptive remedy is adopted, no other
22 alternatives are examined. Isn't that true?

23 Second subquestion on that, excavation was
24 never looked at in a feasibility study, was it?

25 MR. RAMSEY: Actually, the Navy had done

Page 97

1 several, I think, different attempts to do some
2 little calculations. That's why people are
3 actually questioning, well, I have heard 13
4 million. I have heard the Navy say 30 million.

5 They had done some back-of-the-envelope
6 calculations, I think, to look at having to dig up
7 this whole landfill to figure out what it was --
8 some cost idea to show that it's an order of
9 magnitude greater than what they are looking at to
10 cap this, which is -- again, we're looking at risk
11 reduction, not just making things pristine.

12 I realize that we don't have an unlimited
13 budget on these things. And sometimes if there is
14 a remedy that's 2 million versus 20 million,
15 sometimes it's hard to get the \$20 million remedy
16 if that becomes all the Bay Area bases get for a
17 year or something for environmental cleanup.

18 MR. MCLEOD: So essentially you are saying
19 it's too expensive and it's too dangerous, the
20 material there is probably too dangerous. Is that
21 what you said before when you are saying if they
22 dug it up and it would be dangerous to be taking it
23 through the communities?

24 MR. RAMSEY: I don't want to overly alarm
25 people. But the fact is, when remedial actions are

Page 98

1 often taken, that's when people have the
2 exposures. It's when they have to go in with
3 tractors and start digging stuff up.

4 I am getting all kinds of signals. People
5 would like to change --

6 MR. O'BRIEN: This is an instance where we
7 need to take a vote whether we want to continue
8 with this discussion. I think this discussion is
9 very important.

10 MR. O'CONNELL: Would you like to make a
11 motion?

12 MR. O'BRIEN: I make a motion that we
13 continue the discussion.

14 MR. O'CONNELL: I will second it.

15 MR. PONTEMAYOR: Okay. There is a motion
16 and seconded that the discussion will be continued.

17 Those in favor?

18 (Show of hands.)

19 MR. PONTEMAYOR: Those opposed?

20 (No hands raised.)

21 MR. PONTEMAYOR: Continue then.

22 MR. MCLEOD: Can I make a comment, as long
23 as we're going to have a little discussion?

24 MR. PONTEMAYOR: Sure.

25 MR. MCLEOD: I have a very difficult time

Page 99

1 talking about this in an intellectual level. I
2 think that this is a very emotional issue, and the
3 place here has been devastated, essentially. It's
4 been put out of commission and put out of use.

5 And I think it's probably true that the
6 Navy won't be here forever. And I'm sure that
7 Concord and other communities are going to be
8 interested in that land at some point.

9 Of course, we're interested in any
10 destruction that's going on, any pollution that's
11 going on in the bay now. And so this is -- I feel
12 a certain helplessness as a community member about
13 this issue.

14 I feel very strongly that a big, serious
15 mess has been made here and that because it's too
16 expensive and because -- essentially because it's
17 too expensive, you have decided that you are not
18 going to clean it up.

19 And I can't sit by that. This just
20 doesn't make sense to me. I mean, it makes sense
21 from the Navy's point of view, but it doesn't make
22 sense from what is in the interest of our
23 community.

24 I guess that's really the bottom line of
25 anything I can say.

Page 100

1 MR. PONTEMAYOR: John.
2 MR. BOSCHE: I would take issue with the
3 big mess. Because there is a landfill and there
4 may be hazardous materials within the landfill, but
5 to this point there has been no evidence that we
6 have found by investigation of any hazardous
7 materials coming out of the landfill.
8 The proposal is to cap that landfill and
9 keep anything that may be hazardous right there.
10 MR. MCLEOD: And therefore, that land,
11 which is now a landfill that was a wetland is
12 unusable from now on.
13 MR. BOSCHE: I would also take issue with
14 that. I think there are other potential uses that
15 should not be overlooked.
16 MR. MCLEOD: Such as?
17 MR. BOSCHE: Such as recreation uses.
18 MR. MCLEOD: The EPA says no.
19 MR. BOSCHE: Well, we're not finished
20 talking about the whole thing. I think the Navy is
21 not finished talking about it.
22 MR. RIVERA: Right. We are drafting the
23 responses to the EPA comments. As far as future
24 use, I think the definition of recreational use is
25 one of the things that has to be arrived at.

Page 101

1 Recreational use may involve just a hiking trail.
2 There are several landfills, like the one
3 across the bay there from Berkeley, UC Berkeley;
4 the landfill across Highway 101 from Candlestick
5 Park, things of that nature. Those are landfills
6 that are supposed to be nonhazardous.
7 They took on waste from the community at
8 large. But I bet you -- I'm willing to bet you a
9 nickel that if you go out there to any landfill and
10 start looking around, you are going to turn up
11 hazardous materials of all sorts.
12 Because people dispose of stuff the most
13 expedient way possible, you are going to find paint
14 cans full of thinners, solvents, lighter fluid
15 containers, who knows what else out there,
16 biological waste that shouldn't be there, all kinds
17 of stuff.
18 MR. MCLEOD: But most people don't toss
19 bombs in the trash, though.
20 MR. RIVERA: You never know these days.
21 There could be pipe bombs out there. There could
22 be meth lab waste out there. There could be all
23 kinds of stuff. Times have changed.
24 As far as evaluating the site, that's a
25 work in progress. The motion has already been made

Page 102

1 to continue the discussion, and I probably would
2 recommend more discussion. I don't want to --
3 please, whoever else, comment.
4 MR. O'BRIEN: Phillip, I just want to
5 confirm a statement you made that the landfill is
6 sitting on a marsh. Do you want to rephrase that
7 or do you essentially agree with that statement?
8 MR. RAMSEY: Well, Mr. O'Brien, we all
9 went out to the site. So in my general sense, it's
10 sitting on top of a marsh because that's where it
11 was constructed. It was a wetlands out there that
12 the military had designated that area for their
13 disposal.
14 So it's sitting on top of this marshy bay
15 mud sediment, and it's surrounded by a wetlands at
16 some times, and particularly to the west. You
17 could really question -- I'm not sure how we
18 designate, but there is a -- federal official
19 designations of wetlands, and there is other stuff
20 we look at and say it's pickleweed and this is the
21 RA disposal area, it is a wetlands.
22 Other areas around it, it kind of
23 depends. It depends on what are we trying to do.
24 I'm not sure, but the whole area down there is
25 all -- that's all along the Sacramento River. It's

Page 103

1 kind of the floodplain to the river, essentially.
2 MR. O'BRIEN: Thank you.
3 MR. PONTEMAYOR: Discussion?
4 I will call now on Mr. Meillier.
5 MR. MEILLIER: Well, my name is Laurent
6 Meillier. I represent the Regional Water Quality
7 Control board in Oakland. I guess I will be
8 presenting the Board's position on the Site 1
9 landfill.
10 The Regional Water Quality Control Board
11 will not sign the ROD as it stands today, the
12 edition that I reviewed.
13 And the reasons why we will not sign the
14 ROD is because -- the first one is because the
15 leachates haven't been fully categorized.
16 Leachates are native to the landfill.
17 Also, we concur with the U.S. EPA in the
18 sense that we do not support recreational use of
19 that landfill. And we also have a list of errors
20 which are requirements that need to be applied to
21 the landfill in order for it to be monitored within
22 State law.
23 Basically, we understand that we might
24 cast two RODs, one ROD being the capping of the
25 landfill which would address, in terms of

Page 104

1 immediacy, the isolation of that land mass, of that
2 waste mass from the system; and then casting
3 another ROD which would be the ground water ROD.
4 In this case, what the Board's position is
5 is that it needs to be proven that the leachates
6 that would be generated or that are potentially
7 generated by the landfill are meeting the state
8 criteria for water quality.
9 And if they do not meet the state
10 requirements for water quality, the cap would have
11 to be redesigned in a specific fashion so that it
12 does meet the requirements or potential barriers
13 for flow, for water flow, should be it prevented in
14 order to stop the leachates to reach Site 2.
15 Then also in that letter I presented some
16 more kind of detailed comments, some of them being
17 the cartography and surrounding the landfill needs
18 to be better defined.
19 The ground water sampling, we also concur
20 with the EPA that something needs to be reenacted.
21 There is not recent data for the ground water,
22 which means by that leachate would be transported,
23 would be a component of ground water.
24 Also, the capping, the way the cap has
25 been designed, we do not agree on the succession of

Page 105

1 the various layers.
2 Lastly, I think the Board recommends that
3 wells be installed in the waste mass itself so that
4 the leachate can be characterized and recognized,
5 as well, as well as gas monitoring wells.
6 And then, finally, the Board also has the
7 position of reopening ROD Site 1 if during
8 investigation of Site 2 it is found that leachates
9 are being brought from Site 1 to Site 2. So that
10 the ROD Site 1 would have to be revisited to
11 prevent that from happening and from reaching the
12 bay and from impairing the state waters.
13 So these are the Board's positions, and I
14 am ready to take any questions that you have.
15 MR. McLEOD: You talked about a barrier, a
16 possibility. What kind of a barrier? Are you
17 talking about a concrete barrier or something?
18 MR. MEILLIER: Yeah, there are many types
19 of barriers. That's why one could be a physical
20 barrier like a concrete barrier. Another one could
21 be a hydrogeological barrier in the sense that it
22 would be a negative cone of depression.
23 You would basically pump water at the
24 center of the landfill so that the water would not
25 move in the outskirt of the landfill and affect the

Page 106

1 adjacent regions.
2 But that's like a nonphysical
3 barrier. There are slurry (ph.) walls which are
4 also physical barriers which can prevent leachate
5 from reaching the other sites.
6 MR. McLEOD: If you made a concrete
7 barrier, would you go down into the bay mud?
8 MR. MEILLIER: Well, we would have to look
9 at the -- I mean, that's a pretty technical
10 question. But yes, probably it would go down to a
11 key layer that would be impermeable and meet
12 criteria in terms of permeability.
13 MR. McLEOD: Thank you.
14 MR. MEILLIER: So do you have any other
15 questions?
16 MR. PONTEMAYOR: Thanks.
17 MR. MEILLIER: Okay. Then I think --
18 don't you have me for another --
19 MR. PONTEMAYOR: Yes, the next item on the
20 agenda, on the new business.
21 MR. MEILLIER: Well, I wanted to talk
22 about the treatise letter, the follow-up to
23 community petition.
24 MR. PONTEMAYOR: I'm sorry. Please go
25 ahead.

Page 107

1 MR. MEILLIER: Okay. So the other point
2 that I just wanted to make quickly, since we are
3 kind of running out of time, Board staff wrote a
4 letter in response to the water quality petition
5 that was written by Evelyn Freitas as well as
6 signed by 69 other concerned citizens relating to
7 Site 1 landfill.
8 I wrote a letter that was communicated to
9 the Navy and to the regulatory agencies as of
10 February 22nd where I basically outlined, you know,
11 the chain of command, the decision, basically,
12 making process in the system.
13 So basically what I outlined there is that
14 U.S. EPA has entered into that agreement with the
15 United States Navy, that is with the federal
16 facility under FFA, and that the ETAC is basically
17 the lead state agency, but no state agency has
18 signed this FFA.
19 So, therefore, the state is still -- I
20 mean, the Navy still needs to follow state
21 requirements and state law, but the state is not
22 binding, in terms of legal term, to that agreement.
23 Also outlined in that letter the authority
24 that the Regional Water Quality Control Board has,
25 and it's very precise in the sense that we only

Page 108

1 deal with polluted sediments, and we deal with
2 petroleum only one (inaudible) plume as well as
3 underground storage tank programs.
4 But it is also my understanding that as
5 you can see, I have reviewed sites that do not
6 entirely, you know, impaired by petroleum products.
7 So it goes beyond that, but it's kind of an
8 oversight that it is provided in courtesy to the
9 Navy as well as to the U.S. EPA.
10 You know, I also outline in that letter
11 that the Board study didn't concur with the
12 signature of the ROD. And then Evelyn Freitas
13 asked a couple questions, one of them being the
14 storm water plant, assembly plant. And there is
15 currently a storm water assembly plant that is
16 implemented for the inland area of the Concord
17 Naval Weapons Station.
18 But there is no storm water assembly plant
19 that is implemented for the tidal area. Why is
20 that? Because storm water assembly plant is
21 usually implemented for industrial activity for
22 sites that have ongoing industrial activity, such
23 as the inland area.
24 But it hasn't been documented or it hasn't
25 been brought to the attention to the Regional Water
Page 109

1 Quality Control Board that there was industrial
2 activity in the tidal area; therefore, there is no
3 storm water assembly plant for that area.
4 But if the community believes that there
5 should be an implementation of a storm water
6 assembly plant, that needs to be brought up to the
7 Navy, and it needs to be brought up to the Regional
8 Water Quality Control Board, but not to myself.
9 Basically I am within the duty section, so
10 I do not implement the storm water assembly plant.
11 But I would be glad to give you the coordinates and
12 reference of the person that -- that is actually
13 the project manager for that storm water assembly
14 plan.
15 Then Evelyn Freitas also presented TMDLs.
16 She was concerned that it would not be implemented
17 for the tidal area of the Concord --
18 (UNIDENTIFIED SPEAKER): What was the
19 abbreviation?
20 MR. MEILLIER: Total Maximum Daily Load.
21 And TMDLs are usually implemented with
22 NPDES permits. And an NPDES permit, I think, is
23 National Pollutant Discharge Elimination System.
24 So it goes that basically the TMDL is
25 associated with the permits, and they are not
Page 110

1 implemented per se, like just for a site without
2 the linkage with the NPDES permits.
3 Then she asked me about the basin plan.
4 She was concerned that there was no basin plan.
5 There is a basin plan that has been implemented by
6 the Regional Water Quality Control Board that is
7 available online as well as in our copies.
8 So there is a basin plan available. And
9 if you want a copy of it, feel free to call me or
10 to get online and get the address.
11 And finally, I gave also coordinates of
12 people that are from the U.S. Fish and Wildlife
13 where they are concerned about endangerment of
14 flora and fauna could be addressed. Because I do
15 not -- it is not within my jurisdiction, my
16 oversight to deal with those kind of issues.
17 So basically that's what I wanted to
18 present.
19 MR. PONTEMAYOR: Thank you.
20 MR. MEILLIER: If you have any questions,
21 I would be happy to answer them.
22 MR. O'BRIEN: Who is the contact person?
23 MR. MEILLIER: For the plant? Her name is
24 Carmen Fewless, F-e-w-l-e-s-s.
25 MR. O'BRIEN: Do you have her phone
Page 111

1 number?
2 MR. MEILLIER: No. But you can call the
3 receptionist, which is (510) 632-2300, and give her
4 her last name. She should connect you to her.
5 MR. O'BRIEN: Okay. Thank you.
6 MR. O'CONNELL: Would you personally
7 characterize the site as being surrounded by
8 industrial activity?
9 MR. MEILLIER: I do not have enough data
10 to make that assessment. I do not know that. I do
11 not know exactly what the Navy or what I guess the
12 U.S. Army does at that site in terms of industrial
13 activities there.
14 But there is harbor activity, and I
15 believe there is loading and unloading of material
16 there. But I do not know if that qualifies it as
17 industrial activity.
18 And I do not know enough about the site.
19 But it's something that can be looked at and
20 presented to Bob Scott. And I actually contacted
21 Carmen and I communicated to her concern about the
22 tidal area having no storm water assembly plant.
23 MR. O'BRIEN: Laurent, can this also be a
24 history of industrial use? It doesn't have to be
25 current industrial use, does it?
Page 112

1 MR. MEILLIER: I believe that it's usually
2 current. If it's history in the sense of it may be
3 close history, like maybe the last two or three
4 years, probably there will still be a storm water
5 assembly plan implemented. But in the sense of my
6 understanding on the industrial activities, it's
7 probably too remote for a storm water assembly
8 plant to be having action as of today.
9 (Discussion off the record.)
10 MR. PONTEMAYOR: Okay. We will give you a
11 few minutes to do that.
12 Thank you.
13 (Recess taken from 9:28 p.m. to 9:36 p.m.)
14 MR. PONTEMAYOR: We are running a little
15 late here, and I would like to pose this question
16 to the RAB.
17 We have an upcoming site tour, and perhaps
18 if one of the members would put that to motion and
19 have the presentation during the day of the site
20 tour. Or if there is a desire to continue with the
21 presentation tonight, the table is open.
22 MS. TANASESCU: I have a question, because
23 I know Laurent isn't going to be here for the site
24 tour. So could we get his comments on the sites at
25 least?

Page 113

1 MR. MEILLIER: And it is also I will not
2 attend, as well, the next RAB, because it's going
3 to be a state holiday, as well, Cesar Chavez, which
4 is April 1st.
5 MR. PONTEMAYOR: You are not kidding?
6 MR. MEILLIER: No, I am not kidding. I
7 know it is April Fool's, but I just wanted to let
8 you know.
9 MS. TANASESCU: Is it possible to get your
10 comments prior to this presentation or is it prior
11 to this presentation?
12 MR. PONTEMAYOR: Well, if you are ready,
13 you have the floor.
14 MR. MEILLIER: Sure.
15 MR. O'BRIEN: I think this needs to be
16 taken in an orderly fashion. There needs to be a
17 presentation by John, and then we have the
18 regulatory comments. I propose that we either find
19 another meeting date in April or we have a second
20 meeting date in March.
21 MR. O'CONNELL: We're going to have
22 proposed two meeting dates in April already, and
23 they are pretty packed, as it stands. So we
24 couldn't postpone until April. I would like not to
25 postpone until April.

Page 114

1 MR. O'BRIEN: How about another meeting
2 for March?
3 MR. O'CONNELL: I don't have any problem
4 personally with going on tonight. I don't know how
5 others feel.
6 MR. GRIFFITH: How long are we talking
7 about?
8 MR. PONTEMAYOR: Presentation? Maybe 30,
9 45 minutes?
10 MR. BOSCHE: Yeah.
11 MS. TANASESCU: Can I ask you a question?
12 Is there a reason why we couldn't get the agency
13 comments first as long as it's not dependent on the
14 presentation anyway?
15 MR. O'BRIEN: Well, I think it is
16 dependent on the presentation, and it's important.
17 MR. BOSCHE: In fact, Phillip asked to
18 have the agenda switched around to have the agency
19 comments first.
20 MS. TANASESCU: At the beginning of the
21 meeting, it was brought up when we adopted the
22 agenda.
23 MR. O'BRIEN: I don't understand that
24 logic.
25 MR. RAMSEY: I did because I thought it

Page 115

1 was important. I didn't need that much time. I
2 actually thought it would be better to give the
3 punch line, what do the agencies think, and then
4 allow the Navy to go through and talk about the
5 site information that's the basis for the decision.
6 So as long as that time was needed for
7 them, I didn't want to let RAB members wait
8 thinking we are going to hear this long thing and
9 then they are going to ask what do the agencies
10 think. I just had a short piece. That's why I
11 thought it might be interesting to hear our
12 position on the remedy right from the start.
13 MR. O'BRIEN: Well, I think this is a
14 little different, because we already had the
15 presentation. Now we are kind of formalizing the
16 comments that you had made.
17 MR. RAMSEY: For the landfill or
18 something, you mean?
19 MR. O'BRIEN: Right.
20 MR. O'CONNELL: I tend to agree with what
21 I think I hear Ray saying. Without the
22 presentation from the consultant first, we really
23 have no context in which to fit the other
24 comments. I have read the ROD, but for those that
25 haven't, it would be difficult.

Page 116

1 MR. PONTEMAYOR: So what's the feeling of
2 the RAB, to do the presentation and then --
3 MR. MCLEOD: In the interest of time, I
4 would suggest let's hear the comments, and we can
5 catch up in our reading.

6 MR. RAMSEY: I mean, I don't know how
7 we're going to do this in the interest of time,
8 because I thought this is important for the Navy to
9 have the time to explain -- it's again where you
10 are being presented with the Record of Decision.

11 What you really have to hear is the
12 investigation, the data that was collected for the
13 RI, kind of the whole process. I thought everyone
14 is waiting for the agency. Well --

15 MR. MCLEOD: Let's go ahead. Let's hear
16 it.

17 MR. PONTEMAYOR: So agency comments?

18 MR. MCLEOD: No. Let's hear the
19 presentation in the order of the agenda.

20 MR. PONTEMAYOR: Earlier in the agenda at
21 the beginning we changed it to have the agency
22 presentation before the technical presentation, and
23 it was agreed to by everybody.

24 MR. MCLEOD: Okay. Well, let's stick with
25 that.

Page 117

1 MR. PONTEMAYOR: So agency presentation or
2 comments?

3 MR. RAMSEY: That's fine. I will be just
4 be real quick here.

5 What John is going to present to you folks
6 is the Site 13, 17. Site 13 is the burn area. 17
7 was a little forklift maintenance facility.

8 EPA -- the main point I wanted to tell
9 folks is that EPA, while we sent a letter, and it's
10 dated January 10th, RAB members received a copy
11 again on the revised draft final Record of
12 Decision. The main point is EPA does support the
13 Navy in these -- what the decision is, what the
14 remedy or the proposed no action.

15 We support the Navy on that. Because this
16 is a Record of Decisions, it's a legal document, we
17 have comments, and we have some concerns expressed
18 in the letter regarding the documentation that's
19 included in that Record of Decision, and
20 specifically some documentation regarding where all
21 the soil sampling and all the field work was done,
22 some discussions and needs for additional
23 clarification on the ground water, and then the
24 ecological risk presentations. And it's primarily
25 a presentation deficiency.

Page 118

1 I go back and look through the past
2 correspondence and there is no major gaps regarding
3 the work that was conducted and things like that.

4 So I just thought that was important for
5 folks. You are going to hear a long description
6 from the Navy about the sites and their remedy. We
7 just thought it would be nice to hear right from
8 the start where does the EPA at least stand on the
9 overall proposed remedy for these two sites.

10 So that's all I had to say.

11 MR. PONTEMAYOR: Water Board?

12 MR. MEILLIER: Okay. The Water Board
13 wrote a letter dated December 21st that presents
14 the water staff position on the site.

15 The Board also had the discussion with the
16 Navy after that letter was written. And the Board
17 staff has a better understanding of what type of
18 action had been taken at the site. So some of the
19 comments that were presented in that letter, you
20 know, are kind of out of context basically, because
21 that means that we have a complete understanding of
22 what the Navy had done at the site.

23 But the Water staff also concurs with EPA
24 in the sense that the ROD needs to be improved in
25 terms of bay representation. Water staff would

Page 119

1 have a better presentation of what -- the hydrology
2 at the site, by that the maps that outlines the
3 location of as well as better ground water data.

4 Also, the Board staff believes that there
5 needs to be a better presentation on how the risk
6 has driven excavation for Site 13, and also the
7 areas that was scanned for military ordnance. The
8 Water staff understands that the Navy has done
9 ordnance studies there, geophysical surveys, and
10 the Board staff is aware of that.

11 So the Board staff is kind of waiting for
12 that document to be -- for that specific
13 information to be presented in the ROD.

14 For Site 17, there is mentioning of an
15 acids dump, and Board staff was wondering if aerial
16 maps were reviewed in order to deny the existence
17 of that acids dump.

18 And finally for both sides, in terms of
19 presentation, we recommended to the Navy that the
20 ambient sampling sites, specific sites that were
21 used for ambient sampling had to be mapped, as well
22 as the criteria that were applied for removal of
23 the contaminants there.

24 And then finally, due to the type of
25 oversight that the Board has, Water staff needs

Page 120

1 more data on the USTs, the underground storage
2 tanks. But that does not necessarily need to be in
3 the ROD because it is a separate program.
4 Those are basically the major components
5 of this letter and the position of the Board on
6 those two sites.

7 MR. PONTEMAYOR: Thank you.

8 Comments, questions?

9 John, please present the project.

10 MR. BOSCHE: Is that where we are? Is
11 that what you want?

12 MR. PONTEMAYOR: Yes.

13 MR. BOSCHE: All right.

14 MR. RIVERA: If I may make a comment.
15 This is general awareness for the RAB. The costs
16 for the court reporter go up at least three to four
17 times after 10:00. So it would be -- in the
18 interest of being efficient dollar-wise, please
19 keep that in mind.

20 MR. BOSCHE: Okay. This is basically just
21 an organization of what I am going to talk about.
22 I am going to try to go through quickly.

23 This job is part of the larger effort that
24 is performed by the Navy. This is just one of
25 the -- this is the title, the "Inland Area Remedial

Page 121

1 Investigation."

2 I am going to go through the CERCLA
3 process very briefly to say that an initial
4 assessment study was conducted in '83. A site
5 investigation was completed in '93. That led to
6 the remedial investigation, which is this document.

7 This document studies five different
8 sites, two of which are covered in this ROD. And a
9 draft ROD was completed in 1998, a proposed plan
10 was prepared. A public review and comments started
11 March 19th, '99 and was completed a month later on
12 April 19th, 1999.

13 A public meeting was held on April 5th.
14 Final proposed plan was completed in May. And then
15 there have been various versions of this ROD
16 completed, the most recent being October 30th. And
17 we have been in comment and response mode, which is
18 where we are now.

19 So I'm at the second line item there,
20 which is the CERCLA update. Just for your
21 information in this document, just the data
22 presentation for the Site 13 is encircled by that
23 rubberband. So that shows the number of samples
24 that were analyzed and the reporting for those
25 samples.

Page 122

1 Okay. To give you an idea of where the
2 site is located, Site 13 is here (indicating).
3 It's between Highway 242, 4, and Willow Pass Road.
4 And Site 17 is here (indicating). You have in your
5 packets larger versions of what I'm showing here,
6 and they are labeled to give you the description of
7 the site and what's being shown. And I will just
8 describe to you as we go through, because those
9 drawings are 11 by 17, the ones you have.

10 This is Site 13. It encompasses an area
11 of like this here (indicating), and it's generally
12 sloping hillside area. This is a topographic map,
13 and these are trenches that were dug through the
14 area. I believe they were for railroad storage of
15 munitions. I don't know if they were ever actually
16 used for that purpose.

17 From the late '40s until 1974, portions of
18 that area, which measures over a thousand feet in
19 each direction, were used for destruction of live
20 ordnance, and it was destroyed by burning in these
21 trenches that were dug for the railroad storage.

22 And it included such things as flares and
23 smoke chemicals and photoflash cartridges, rockets,
24 smoke chemicals, and explosives. These things were
25 burned or destroyed up until 1974.

Page 123

1 Site 13 was also used for firefighting
2 training with the naval weapons station fire
3 department practicing putting out burns there.

4 I mentioned that a site investigation was
5 done. These are the sample locations that were
6 used for conducting the site investigation. I just
7 wanted to give you a picture of sort of how they
8 are distributed across the site.

9 The next investigation that was done was
10 for the remedial investigation. These are the
11 sample locations for the remedial investigation and
12 shows how they are distributed across the site.

13 And then I have got some slides that show
14 the investigation results, both in terms of
15 geographic distribution and also in charts.

16 Now, these are constituents that were
17 detected. There was motor oil detected at various
18 places around the area, also, benzo(a)pyrene, and
19 for the most part that's mostly what was detected.
20 There was some diesel.

21 Then in tabular form, these are maximum
22 detected concentrations at Site 13 in soil. These
23 are all organic constituents, so none of them are
24 metals. That's the other thing that we analyze
25 for.

Page 124

1 And the thing to -- we may be getting a
2 little bit ahead of ourselves, because we have not
3 given you an orientation on human health risk, but
4 I will get ahead of myself here, because what we do
5 is we compare to preliminary remediation goals.
6 And preliminary remediation goals were
7 developed to evaluate human health risk. For the
8 residential scenario, they assume continuous
9 occupancy on a site for 30 years, including child
10 exposure type scenario.
11 So if your constituent -- there is a lot
12 more to human health risk assessment than what I am
13 going to say now. But basically if your
14 constituent falls below your PRG level, you are
15 assumed to be safe to occupy that site for the
16 exposure period that I just mentioned.
17 And as you can see in terms of the organic
18 contaminants at Site 13, there is one organic
19 contaminant that exceeds the preliminary
20 remediation goal in its maximum concentration. And
21 as I showed you, there are quite a few samples that
22 went into that evaluation.
23 If you have a soil exceedance of the
24 maximum concentration, that doesn't necessarily
25 imply that you have a human health risk problem.

Page 125

1 So these are maximum concentrations, and that's a
2 PRG screen. This is the most conservative way that
3 we can summarize human health risk at a site is to
4 do this. It's often used as an initial screen.
5 And as you can see by the concentrations that we
6 have here, not much exceeds.
7 There was -- earlier on in this project,
8 there was an area where a substance was found. It
9 was believed to be the remnants of napalm burners.
10 When they picked these pieces of solidified napalm
11 up and held some instrumentation down to measure
12 what was volatilizing into the air, they detected
13 some benzene volatilizing into the air.
14 So on the basis of that, they determined
15 that that material should be removed, and there was
16 a soil removal conducted to remove the napalm
17 residue and benzene-affected soils.
18 These are the maximum concentrations
19 remaining after the removal was conducted. TPH-d
20 is diesel; TPH-mo is motor oil; and then what we
21 call BTEX, which is benzene, toluene, ethylbenzene,
22 and Xylene; and semivolatile organic compound.
23 So these are low numbers. Nothing exceeds
24 any kind of PRG level. So that remedial effort was
25 concluded and was judged to be successful at

Page 126

1 removing what was once there.
2 These are results from metals analysis.
3 Samples across the site were evaluated for various
4 metals, for the whole EPA list of metals. And
5 there were some exceedances in metals, but I will
6 show you in the tabular form, these are maximum
7 concentrations one more time. I need to flip to a
8 page in my reference here.
9 Metals are naturally occurring substances
10 in the environment and soils. So as one of the
11 first steps to evaluate whether you have a
12 contaminated site is determining what ambient, or
13 otherwise known as background, concentrations are.
14 And this column here represents a list of
15 background concentrations. And it's a statistical
16 evaluation. And the number on the left is the 95th
17 percentile of the maximum background concentration,
18 or ambient concentration, and the number on the
19 right is the 99th percentile, the idea being one
20 should not remediate sites to concentrations lower
21 than background, because it would be an endless
22 project.
23 The maximum -- and the column to the left
24 is the residential PRG. The same PRGs are
25 estimated for metals as are for organic materials.

Page 127

1 And the maximum detected concentrations are in the
2 column farthest to the right.
3 And you do see some exceedances of the
4 PRGs, but for the most part these are the result of
5 one sample. The first number was exceeded in the
6 single sample. The second one was exceeded in a
7 single sample. The third one was exceeded in a
8 sample that was 25 feet deep.
9 The next one was exceeded in two samples,
10 and so on until we get to lead, which was exceeded
11 in seven samples. And as a result of those
12 exceedances, the Navy went back out to the site to
13 collect samples in the vicinity of those higher
14 numbers and didn't find similar numbers, which led
15 us to the conclusion that we're not looking at a
16 significant soil volume even in the location of
17 those hits where we had found high concentrations
18 of metals in the first place.
19 Some of these constituents were
20 collocated, so that one sample bore some lead
21 contamination, for example. It also bore some
22 other exceedance of PRGs. But if the volume is
23 sufficiently small that you can't even recreate it
24 by going to sample it, then numbers like that are
25 not particularly significant in a risk assessment.

Page 128

1 Let's see. Ground water was also analyzed
2 in that Site 13, and there were exceedances of
3 manganese. But the two exceedances of manganese
4 that we had, this one and that one (indicating),
5 were both in samples that were not filtered after
6 the sampling.

7 The reason that you would want to filter a
8 water sample after sampling is to take out the
9 particulate matter that's in the water sample,
10 because the particulate matter within that water
11 sample does not naturally move in an aquifer.

12 So if you have a drinking water well, you
13 are not going to pump a glass full of cloudy dirty
14 water and drink it. If you do, you might find these
15 kind of concentrations of metals, because the
16 metals reside in the soil particles.

17 So because those samples were not filtered
18 and we suspected that manganese might be the result
19 of the particulate matter, we went back and we used
20 a technique called low-flow purging, which results
21 in a fairly clear water sample. And in that water
22 sample, we had a significant decrease to this 245
23 number.

24 Earlier on -- I believe the July and
25 August '92 number was from a filtered water sample

Page 129

1 here, this 18.9. So with 18.9 and 245, you can
2 conclude that we're well below the tap water PRG,
3 which is basically a drinking water preliminary
4 remediation goal.

5 So we were able to conclude that the
6 manganese wasn't a real constituent in the ground
7 water at the site; therefore, we're not worried
8 about it.

9 There was one exceedance of a combined
10 analysis in nitrate and nitrite at a number that
11 slightly exceeded the drinking water PRGs. And I'm
12 not sure if the drinking water PRG makes the same
13 30-year continuous exposure assumptions. But it's
14 a rigorous standard, because these are numbers that
15 would be acceptable for drinking water.

16 We went back out and sampled discretely
17 for nitrate and nitrite. And while nitrite was not
18 detected, nitrate was detected at numbers that were
19 slightly lower than the PRG in one sample and then
20 even lower in the second one. So from that we
21 concluded, those constituents aren't a problem at
22 Site 13 either.

23 I am going to jump to Site 17, which, as
24 Phillip said, was a facility for forklift
25 maintenance. It encompasses Building IA24, and

Page 130

1 then these two IA24 A and B buildings. The area is
2 generally paved. There was a steam cleaning
3 discharge line. Presumably, they were steam
4 cleaning the forklifts themselves.

5 Steam cleaning is always an environmental
6 mess, because you are rinsing the accumulated
7 debris off of greasy machinery. So there was some
8 sampling in Seal Creek to see if there had been
9 impacts as a result of the steam cleaning, because
10 the discharge line lead to Seal Creek.

11 These were the sample locations from the
12 site investigation. There was -- also a part of
13 maintaining forklifts is to service their
14 batteries, replace them and so forth. And there
15 were allegations of a possible acid dumping pit, a
16 sump. And so I think that these borings from the
17 site investigation were to look for that pit.

18 Work was also conducted during the
19 remedial investigation, which expanded on the site
20 investigation, and these were sample locations from
21 that. No evidence of a pit was found at the site,
22 and the level of effort to look for it was
23 conducted at levels that were acceptable to the
24 Navy and also to the regulators.

25 And then the sampling that was conducted

Page 131

1 for the remedial investigation -- this is a much
2 smaller area than Site 13, and these are the sample
3 locations that were investigated. And these are
4 the results for the organic constituents that were
5 analyzed for.

6 And you have detections of motor oil,
7 benzo(a)pyrene. And this is the summary table for
8 that. And again, only one constituent exceeded the
9 residential preliminary remediation goal, and that
10 was benzo(a)pyrene at .11 milligrams per kilogram.

11 Ground water was also analyzed, and these
12 are the ground water analytical results from the
13 wells, and also have ground water samples from open
14 borings. And these are the ground water -- oops,
15 wait a minute. I skipped one. It was out of
16 order.

17 This is moving back to the inorganic
18 analysis. Wait a minute. No, I apologize.

19 The last slide were exceedances of metals
20 in soil. I'm sorry. Those are metals in soils.
21 These are all exceedances of the PRGs that are
22 listed. Because as I said, metals are naturally
23 occurring substances in soil. To list all of the
24 detected quantities you'd have a long list on every
25 little callout.

Page 132

1 So these only illustrate those samples
2 where exceedances of PRGs were found. And those
3 are listed here as arsenic, lead, and nickel.
4 I think I have got these out of order
5 here. Oh, these samples down here in this area
6 were from the Solid Waste Management Unit
7 investigation, so I think that's why they don't
8 appear, the manganese doesn't appear.
9 Oh, wait a minute.
10 MR. RAMSEY: Yeah, I have got 15 on the
11 table for soils. It just says 1500 for manganese.
12 MR. BOSCHE: Well, these two definitely go
13 together, because there is the 225 for the lead and
14 here is the 225. And I don't recall why the
15 manganese isn't highlighted here. It may be that
16 that was from a separate SWMU investigation.
17 The ground water results here have
18 exceedances in this to Bis(2-ethylhexyl)phthalate
19 and motor oil. Actually, not exceedances in motor
20 oil, because there is no criteria for that. And
21 there is no criteria for diesel. These are just
22 detections.
23 Although this Bis(2-ethylhexyl)
24 phthalate --
25 Oh, I think I know where this comes from.

Page 133

1 I took these figures from the RI, and the PRG
2 numbers changed from the time the RI was prepared.
3 So the EPA updates their PRG numbers from
4 time to time. Because as more things are
5 discovered about the toxicological situations, I'm
6 thinking that's why it changed.
7 One of the EPA's comments for the ROD is
8 that we should incorporate some additional figures,
9 such as the ones I have been showing you tonight,
10 and I took these from the RI.
11 So when we produce the ROD, we have to
12 update these to make sure that the PRG exceedances
13 are relative to the current EPA standards and not
14 the old ones.
15 MR. GRIFFITH: In general, do the PRG
16 levels standards become more or less stringent --
17 MR. BOSCHE: They change according to
18 what's known about the toxicology of a substance.
19 So if something is found to be more toxic through
20 additional study, those numbers will go down, and
21 vice versa. So sometimes things are found to be
22 not as toxic, as well.
23 MR. GRIFFITH: There is a pattern either
24 way?
25 MR. BOSCHE: It goes either way.

Page 134

1 Now, the tables I have been showing you
2 actually do come from the ROD, so those are the
3 right numbers. While these numbers from the RI
4 show actual concentrations, flagging them as
5 exceedances of the PRGs would probably have to be
6 updated for the ROD.
7 So this table is organic and inorganic
8 constituents detected in ground water at Site 17.
9 And again, just as I showed you on Site 13, the
10 concentrations -- a single exceedance doesn't
11 necessarily mean that you have a problem.
12 And things do vary in wells. Like, for
13 instance, the Bis(2-ethylhexyl)phthalate did exceed
14 a criteria here in May '95, but then again it was
15 not detected when it was resampled. And it was
16 resampled three times after that detection.
17 So the data presentation in the ROD, it
18 shows maximum values. And the real story on the
19 human health risk assessment comes when you
20 evaluate the constituents statistically. If there
21 is anomalous hot spots that are not representative,
22 they get statistically reduced, and those numbers
23 are put into the human health risk assessment. And
24 two quantities are calculated. One of them is
25 cancer risk and the other is a hazard index.

Page 135

1 Cancer risk is this number, 1 times 10 to
2 the minus 7th. The way that's described is if you
3 were a resident of the site for the residential
4 exposure time, 30 years of continuous occupancy,
5 what would be your risk of getting cancer above the
6 background risk that the population at large is
7 subject to. And that's called excess cancer risk.
8 So the excess cancer risk is 1 in 10
9 million for the subsurface soils from 0 to .5
10 feet. Now, the reason that that particular depth
11 interval is significant is that happens to be the
12 surface soil that's exposed at the ground surface
13 that you are most likely to come in contact with.
14 There are risks associated that -- the EPA
15 considers anything between 1 times 10 to the minus
16 4 and 1 times 10 to the minus 6 to be the risk
17 range. At 1 times 10 to the minus 4, remediation
18 may be required. At 1 times 10 to the minus 6,
19 remediation is not required.
20 And under the residential scenario for
21 cancer risk, there is nothing in the 1 times 10 to
22 the minus 6 risk range for Site 13. And that's a
23 big driver for why this site is considered to be of
24 no significant risk and why it's proposed as a
25 no-further-action site.

Page 136

1 For those chemicals that do not cause
2 cancer, there is a different method of evaluation
3 that's applied. And the exposure duration is the
4 same, but the criteria, I think, is different.
5 It's not your excess risk of dying; it's are you
6 safe against that constituent, will you be harmed
7 by the particular constituent that doesn't have a
8 cancer risk for that duration.
9 And if the hazard index comes out at less
10 than 1, then -- according to the methodology that's
11 used, then that's an acceptable risk, given the
12 exposure scenario.
13 And if it's more than 1, that's a risk
14 that may need further evaluation. And I can't
15 really go into the details of that, because I am
16 not that familiar with it because I am not a risk
17 assessor. But there are more detailed ways to
18 evaluate should you come out at higher levels.
19 But anyway, for Site 13, everything is
20 less than a hazard index of 1. So it's a pretty
21 clear-cut case of there is no concern at this site
22 for the noncarcinogenic constituents that were
23 evaluated.
24 There is a similar story for Site 17; the
25 hazard index is always less than 1. This number is

Page 137

1 within the risk range, and it's due to -- I think
2 it's the pyrene in soil. But I am going to check.
3 Yeah, it's benzo -- pardon me?
4 MR. RAMSEY: Because of the .22?
5 MR. BOSCHE: It's benzo(a)pyrene, and that
6 puts the number within the risk range where the EPA
7 considers remedial action. But you wouldn't
8 consider it remedial action if your constituent is
9 found in nature from other causes.
10 So, in other words, if you go to the other
11 side of the fence where you have not impacted the
12 site by your own personal activities and if there
13 is an ambient or background level that exists.
14 For instance, lead exists in the
15 background because of all the leaded gas that we've
16 burned in the past. Pesticides exist in the
17 Central Valley in the background. And there are
18 background levels of benzo(a)pyrene in urban and
19 rural environments. These are kind of similar to
20 those numbers.
21 Plus it's not at a greater risk than 1
22 times 10 to the minus 4. So in this case it's not
23 really of significant concern. And the Navy and
24 the EPA agree that that number should not be used
25 to drive any kind of remedial activities at the

Page 138

1 site, because benzo(a)pyrene concentrations just
2 aren't high enough to cause that.
3 Now, I went on a bit on human health risk
4 assessment, and I am not going to go into really
5 any detail on ecological risk assessment because
6 ecological risk assessment is a little more
7 complicated.
8 But it follows the same sort of pattern of
9 evaluation. You look at different ways that the
10 chemical can be taken up by an animal. You look at
11 the concentrations, and you try to evaluate the
12 toxicity of those chemicals to those animals. You
13 also try to evaluate the bioavailability.
14 There are cases where an animal can ingest
15 the chemical but it doesn't really go into their
16 bloodstream. Again, I am not an ecological health
17 risk assessor either.
18 But the short version of this is that the
19 risk assessment that was done sort of parallels the
20 human health risk assessment in that there was no
21 significant risk found to the ecological receptors.
22 And that leads -- with no risk, no
23 significant risk to ecological receptors, no
24 significant risk to human receptors, and no
25 detrimental impacts to water quality leads us to

Page 139

1 conclude that the site is appropriate for no
2 further action.
3 And that's it. So if you have any
4 questions regarding what I have presented, I would
5 be happy to answer them.
6 MR. MCLEOD: I'm sure I'm going to show my
7 ignorance, but you did drilling of wells or testing
8 of wells where you actually did drilling yourself,
9 or did you go to existing wells?
10 MR. BOSCHE: We drilled them ourselves.
11 So they are not ground water supply wells; they are
12 monitoring wells that were installed.
13 MR. MCLEOD: So you didn't go to any of
14 the wells of all the former farms that were there
15 and check those wells to see what they looked
16 like? Is that relevant or irrelevant?
17 MR. BOSCHE: I'm not aware of any wells
18 within Site 13 or within Site 17 that were there to
19 be sampled.
20 MR. MCLEOD: And if there were, would you
21 want to check those, or is that something you would
22 normally do? Because that area was completely
23 dotted with farms and they all had wells.
24 MR. BOSCHE: If they were available for
25 sampling, we'd sample them.

Page 140

1 MR. MCLEOD: You'd have to know where they
2 were. But you didn't do any historical research to
3 see what farms were there and where the wells were
4 located?
5 MR. BOSCHE: I don't know to what extent
6 wells were researched.
7 MR. MCLEOD: But apparently you are not
8 aware of them, so they probably weren't researched;
9 is that fair?
10 MR. BOSCHE: No, that's not fair. I don't
11 know if they were researched or not, and I wouldn't
12 just presume that there would be a well within Site
13 13 without any research.
14 MR. MCLEOD: Sure.
15 So how relevant is my question? I guess
16 that's really what I want to know. What does it
17 mean?
18 I mean, obviously you have done test
19 wells. And my question -- what I would wonder
20 about just in general is what about the wells that
21 are still there that are just closed, you know,
22 from all the farms that were there? Would you test
23 those normally?
24 MR. BOSCHE: Well, if there is a well
25 that's there -- wells are usually pretty small

Page 141

1 diameter things. If it had not been properly
2 abandoned, you might not be able to find it. And
3 we did do geophysical work on the site, and well
4 casings would have been generally made out of
5 metal.
6 MR. MCLEOD: In the '40s?
7 MR. BOSCHE: Yeah.
8 You know, there could be a well out there
9 that wasn't properly abandoned and we might not
10 have found. But the site is -- we did install
11 monitor wells to see if we could detect a ground
12 water problem at the site, and we didn't find one.
13 MR. GRIFFITH: I'd like to add that, in
14 general, it's better to use these monitoring wells
15 that are installed. Number one, they are installed
16 in such a way that they are capped at the top, so
17 you get a true representation -- especially for the
18 ground water well, you get a true representation of
19 what is actually in the ground water.
20 Whereas if you used a previously existing
21 well that may not be structured correctly, you may
22 have contamination coming in from the top and
23 percolating down.
24 So these monitoring wells have a lot of
25 advantages when they are installed, not only in

Page 142

1 that way structurally, but also position-wise.
2 What they do is they research the subsurface. They
3 strategically place these monitoring wells to
4 capture adequate samples from the pollution site.
5 So they are actually placed strategically in the
6 right solutions.
7 So --
8 MR. MCLEOD: So existing wells are not
9 particularly relevant?
10 MR. GRIFFITH: Not at all, basically. The
11 bottom line is you'd prefer to have these correctly
12 constructed and placed monitoring wells, and they
13 are very effective.
14 MR. RAMSEY: It's always great -- when you
15 have people using a drinking water supply, it's a
16 great thing to sample from the standpoint of
17 someone using the well. That was your own
18 question --
19 MR. MCLEOD: They wouldn't have been used
20 for 60 years.
21 MR. RAMSEY: That's the trouble. That's
22 why they walk the site, so if they saw something
23 sticking up it would be a concern. When the Navy
24 has a liability they have -- you know, an
25 agricultural production could be potentially big

Page 143

1 enough for a child to go down it. So there is
2 liability of owning a well like that.
3 And then just getting your own question,
4 efficiency, it's always -- production wells or
5 agriculture wells may have a big long screen. So
6 they are designed to take a lot of water, capture
7 water, not necessarily what a monitoring well is
8 designed for.
9 And it does get into -- the design
10 specifics of what the Navy is trying to do when
11 they install wells is very specific. And you are
12 trying to design that well to match the sediment
13 and the surface you are putting a well in. That's
14 not necessarily what a production well or an
15 agriculture supply well is designed to do.
16 MR. BOSCHE: There were three wells that
17 were abandoned by the Navy, and I think they were
18 up to about 300 feet deep. So at least in those
19 cases where the Navy was aware of wells on their
20 property, they were abandoned in the last ten years
21 by drilling out.
22 MR. MCLEOD: I was thinking the historic
23 farms that were there from the 1860s until the
24 1940s. Then the Navy did take photographs of all
25 of those farms and, you know, so that they could be

Page 144

1 located, if that's relevant. But it's not
2 relevant.
3 MR. GRIFFITH: They are -- for monitoring
4 purposes they are probably not too relevant. But
5 for other purposes they may be.
6 MR. O'CONNELL: I have several questions
7 here.
8 Why are Sites 13 and 17 put together in a
9 single ROD? They seem from very different sites.
10 Why not two RODs?
11 MR. BOSCHE: The reason for that, the
12 reason for grouping sites is simply so that you can
13 write a report instead of two reports. So there
14 were five sites in this remedial investigation.
15 In fact, two other sites were originally
16 proposed for no further action and they were
17 previously included in the ROD, and there were some
18 concerns about those sites. So one of those sites
19 is being investigated.
20 Site 22 is subject to some additional
21 investigation, and site 27 will have feasibility
22 studies. So those two other sites were taken out
23 of this ROD, and now this ROD is down to Sites 13
24 and 17.
25 MR. O'CONNELL: The ROD that the Contra

Page 145

1 Costa County Environmental Health Division had been
2 involved in, this process, do you have any
3 recollection of what their involvement was?
4 MR. BOSCHE: No, I don't.
5 MR. O'CONNELL: Okay. This is a comment,
6 one I have discussed with Phillip Ramsey. I'm
7 pretty familiar with the hydrology in the immediate
8 area, and I'm disturbed that there is a lot of
9 hydrological activity here and yet it hasn't been
10 identified.
11 At the base of the hill -- and I'd have to
12 go out to the site and actually look where this is,
13 but my understanding is that at the base of this
14 hill is the former channel for Mt. Diablo Creek, or
15 what you call Seal Creek now.
16 MR. BOSCHE: Now, are you talking about
17 Site 13 or Site 17?
18 MR. O'CONNELL: Site 13.
19 MR. BOSCHE: Actually, that creek lies to
20 the north.
21 MR. O'CONNELL: Well, no. Let me go back.
22 The former channel. The creek
23 rechannelized in 1875, approximately. Prior to
24 1875, it flowed along the base of the hill
25 across -- okay. This is -- right here. This is

Page 146

1 only approximate.
2 This changed course in about 1875. It
3 used to go just like this right here, onward here
4 on over into Walnut Creek channel. That's why the
5 Spanish land grants and everything are over here,
6 because they were sitting actually on this creek.
7 This used to all be fresh-water marsh land until
8 the turn of the century, actually.
9 Anyway, this is an underground creek at
10 this point, actually. About two years ago the
11 Contra Costa Water District had to build a trench
12 right along here, and we warned them they were very
13 likely to come across underground flows of water
14 from that underground creek.
15 MR. BOSCHE: Underground what?
16 MR. O'CONNELL: An underground creek,
17 essentially.
18 And we asked them to keep track of the
19 trenching where they encountered this. As the
20 engineer told me -- I actually have maps now of
21 what they encountered, gravel (inaudible) they
22 crossed. The engineer described to me those as
23 underground rivers, not underground creeks.
24 The flow was so great, they had to have 24
25 pumps working to evacuate the trenches, because

Page 147

1 they were filling up so quickly. A huge amount of
2 water was coming through.
3 Now, the problem, as I see it, the
4 potential problem, and I don't know if it is, is
5 this flows through a residential area, and there
6 it's used in wells, a lot of wells. And what
7 people are doing is they don't drink the water, but
8 they bring it up and they irrigate with it.
9 And I read this morning in an article in
10 The Economist, which is not the greatest source in
11 the world, I know, but it said that bathing in
12 water and breathing in the fumes is the equivalent
13 of drinking it -- for 10 minutes, is the equivalent
14 of drinking a gallon of it. I think that surely
15 depends on what substance they are talking about.
16 But the point is that people are exposed
17 for hour after hour after hour, and so is wildlife,
18 birds and things like that, through this water that
19 is being sprinkled to irrigate and to water lawns.
20 And I'm concerned that that hasn't been looked at.
21 It's such a significant geological feature.
22 And I just want to make that point. That
23 is a comment more than a question.
24 MR. PONTEMAYOR: Excuse me, Marcus.
25 MS. HUNTER: The court reporter needs

Page 148

1 another break. It is 10:30. We're an hour off our
2 schedule.
3 (Discussion off the record.)
4 MR. PONTEMAYOR: Is it a unanimous
5 decision by the members to adjourn?
6 Marcus?
7 MR. GRIFFITH: I think all of us are kind
8 of at a wall; right?
9 MR. MEILLIER: Marcus, one of my contracts
10 was to better characterize the hydrology. So maybe
11 we will have to look to provide those additional
12 data.
13 MR. GRIFFITH: That's a legitimate
14 question.
15 MR. PONTEMAYOR: Thank you all for coming
16 and for staying.
17 (Whereupon, at 10:37 p.m., the proceedings
18 were adjourned.)
19 -oOo-

Page 149

1 STATE OF CALIFORNIA)
2 COUNTY OF CONTRA COSTA)
3
4 I, WENDY L. GRAVES, a Certified
5 Shorthand Reporter in and for the State of
6 California, do hereby certify:
7 That said proceedings were taken at
8 the time and place therein stated; that said
9 proceedings were reported by me, a Certified
10 Shorthand Reporter and a disinterested person, and
11 thereafter transcribed into typewriting under my
12 direction.
13 I further certify that I am not in any
14 way interested in the outcome of said cause named
15 in the caption.
16
17 IN WITNESS WHEREOF, I
18 have hereunto set my hand
19 this 23rd day of March,
20 2002.

21
22 WENDY L. GRAVES
23 CERTIFIED SHORTHAND
24 REPORTER
25 STATE OF CALIFORNIA
C.S.R. NUMBER 6138

Page 150

<p>-\$-</p> <p>\$100,000 [1] 63:5</p> <p>\$20 [1] 98:15</p> <p>\$25,000 [4] 63:4,7,23 78:18</p> <p>\$2500 [2] 69:21,23</p> <p>-'-</p> <p>'40s [2] 123:17 142:6</p> <p>'83 [1] 122:4</p> <p>'92 [1] 129:25</p> <p>'93 [1] 122:5</p> <p>'95 [1] 135:14</p> <p>'99 [1] 122:11</p> <p>---</p> <p>-ooo [2] 3:2 149:19</p> <p>.-</p> <p>.11 [1] 132:10</p> <p>.22 [1] 138:4</p> <p>.5 [1] 136:9</p> <p>-0-</p> <p>0 [1] 136:9</p> <p>-1-</p> <p>1 [33] 28:8 36:10,12 59:1 63:4 65:8 72:5 76:16 78:14,16 81:18 82:3 85:9 93:10 94:17 97:18 104:8 106:7,9,10 108:7 136:1 136:8,15,16,17,18,21 137:10,13,20,25 138:21</p> <p>10 [10] 61:10 136:1,8,15 136:16,17,18,21 138:22 148:13</p> <p>10-acre [1] 83:8</p> <p>101 [4] 46:6 47:9 48:21 102:4</p> <p>109 [1] 1:16</p> <p>10:00 [1] 121:17</p> <p>10:30 [1] 149:1</p> <p>10:37 [1] 149:17</p> <p>10th [2] 82:4 118:10</p> <p>11 [1] 123:9</p> <p>11th [1] 43:11</p> <p>13 [27] 24:25 52:20 53:12 53:12,16 98:3 118:6,6 120:6 122:22 123:2,10 124:1,22 125:18 129:2 130:22 132:2 135:9 136:22 137:19 140:18 141:13 145:8,23 146:17 146:18</p> <p>13th [1] 50:25</p> <p>15 [2] 49:14 133:10</p> <p>1500 [1] 133:11</p> <p>16 [3] 53:2 54:24 55:4</p>	<p>16th [2] 53:7 54:19</p> <p>17 [17] 24:25 52:20 53:12 53:12,17 118:6,6 120:14 123:4,9 130:23 135:8 137:24 140:18 145:8,24 146:17</p> <p>17th [1] 50:25</p> <p>18 [2] 23:21 61:2</p> <p>18.9 [2] 130:1,1</p> <p>1860s [1] 144:23</p> <p>1875 [3] 146:23,24 147:2</p> <p>19 [1] 50:14</p> <p>1940s [1] 144:24</p> <p>1974 [2] 123:17,25</p> <p>1998 [1] 122:9</p> <p>1999 [1] 122:12</p> <p>19th [9] 44:22 46:23 47:6 47:17 50:3,4 52:9 122:11 122:12</p> <p>1st [3] 43:22 45:6 114:4</p> <p>-2-</p> <p>2 [11] 59:6 65:23 72:5 76:17 93:20,25 94:18 98:14 105:14 106:8,9</p> <p>2-ethylhexyl [3] 133:18 133:23 135:13</p> <p>20 [1] 98:14</p> <p>2001 [11] 39:25 40:1,7,8 40:12,13,13,22,22,23,25</p> <p>2002 [5] 1:24 3:1 23:13 40:22 150:20</p> <p>2004 [1] 31:14</p> <p>21st [1] 119:13</p> <p>22 [4] 28:9,10 36:7 145:20</p> <p>225 [2] 133:13,14</p> <p>22nd [1] 108:10</p> <p>23rd [8] 53:3 55:4,18,20 57:6,12,20 150:19</p> <p>24 [1] 147:24</p> <p>242 [1] 123:3</p> <p>245 [2] 129:22 130:1</p> <p>25 [1] 128:8</p> <p>25,000 [2] 78:14,19</p> <p>26th [2] 35:11 39:2</p> <p>27 [4] 28:9,15 34:18 145:21</p> <p>2705 [1] 61:11</p> <p>28th [1] 32:12</p> <p>29 [4] 28:9,21 35:25 36:3</p> <p>-3-</p> <p>3 [1] 76:17</p> <p>30 [6] 76:23 79:2 98:4 115:8 125:9 136:4</p> <p>30-year [1] 130:13</p> <p>300 [1] 144:18</p> <p>30th [5] 53:3 55:4 56:2,5 122:16</p>	<p>-4-</p> <p>4 [7] 1:24 3:1 20:13 123:3 136:16,17 138:22</p> <p>40 [1] 72:15</p> <p>45 [3] 49:13 51:1 115:9</p> <p>4th [1] 19:9</p> <p>-5-</p> <p>5 [1] 20:22</p> <p>510 [1] 112:3</p> <p>5th [1] 122:13</p> <p>-6-</p> <p>6 [4] 21:4 136:16,18,22</p> <p>60 [1] 143:20</p> <p>6138 [1] 150:24</p> <p>632-2300 [1] 112:3</p> <p>69 [1] 108:6</p> <p>-7-</p> <p>7:00 [1] 50:6</p> <p>7:04 [1] 3:1</p> <p>7SH5 [1] 28:10</p> <p>7th [1] 136:2</p> <p>-8-</p> <p>8:11 [1] 58:10</p> <p>8:19 [1] 58:10</p> <p>-9-</p> <p>9 [1] 55:4</p> <p>94520 [1] 1:17</p> <p>95th [1] 127:16</p> <p>99th [1] 127:19</p> <p>9:00 [2] 50:7 57:23</p> <p>9:28 [1] 113:13</p> <p>9:30 [1] 9:12</p> <p>9:36 [1] 113:13</p> <p>9th [7] 35:8 54:10,24 55:8 55:13 56:22 81:20</p> <p>-A-</p> <p>AA [1] 37:25</p> <p>abandoned [4] 142:2,9 144:17,20</p> <p>abbreviation [1] 110:19</p> <p>ability [4] 15:6 42:4 62:10 73:10</p> <p>able [10] 12:14 17:14 39:13 45:2 52:10 55:11 55:14 60:14 130:5 142:2</p> <p>above [1] 136:5</p> <p>absorbed [1] 88:12</p> <p>accelerate [1] 52:25</p> <p>accept [1] 19:14</p> <p>acceptable [9] 7:2 34:13</p>	<p>60:4 83:18 91:1,2 130:15 131:23 137:11</p> <p>acceptance [1] 66:1</p> <p>access [5] 27:21,22 89:13 90:6,8</p> <p>accompaniment [1] 60:18</p> <p>according [3] 61:1 134:17 137:10</p> <p>account [1] 42:18</p> <p>accumulated [1] 131:6</p> <p>achieve [1] 70:19</p> <p>achieving [2] 64:23 66:13</p> <p>acid [1] 131:15</p> <p>acids [2] 120:15,17</p> <p>acquire [1] 63:9</p> <p>acquired [1] 74:12</p> <p>acquisition [2] 69:16 74:10</p> <p>acres [1] 91:8</p> <p>acronym [1] 30:20</p> <p>action [18] 12:13 24:2 25:9 29:7 36:10 48:7 84:15 87:2 88:22 93:14 96:12 113:8 118:14 119:18 138:7,8 140:2 145:16</p> <p>actions [4] 29:22,23 68:3 98:25</p> <p>activities [11] 15:25 30:7 59:10 64:9 65:21 66:2 89:25 112:13 113:6 138:12,25</p> <p>activity [15] 16:7 27:18 29:12 30:8 59:17 64:13 68:2 76:20 109:21,22 110:2 112:8,14,17 146:9</p> <p>actual [3] 54:1 69:9 135:4</p> <p>add [4] 32:4 43:24 59:17 142:13</p> <p>added [1] 43:15</p> <p>addendum [1] 36:10</p> <p>addition [2] 32:8 53:16 84:2 118:22 134:8,20 145:20 149:11</p> <p>address [3] 60:9 104:25 111:10</p> <p>addressed [2] 67:18 111:14</p> <p>addresses [2] 60:6 62:18</p> <p>adequate [1] 143:4</p> <p>adjacent [4] 93:15,20 93:22 107:1</p> <p>adjourn [1] 149:5</p> <p>adjourned [1] 149:18</p> <p>administration [2] 42:19 74:10</p> <p>administrative [2] 13:18 14:1</p> <p>admit [1] 58:20</p>	<p>adopted [2] 97:21 115:21</p> <p>advance [1] 41:3</p> <p>advantages [1] 142:25</p> <p>adverse [1] 15:16</p> <p>advertise [1] 70:4</p> <p>advised [1] 49:7</p> <p>advisory [3] 1:2 26:21 61:5</p> <p>aerial [1] 120:15</p> <p>affairs [2] 45:3 77:13</p> <p>affect [1] 106:25</p> <p>affected [1] 62:20</p> <p>afterwards [1] 10:18</p> <p>again [34] 4:16 10:12 17:9 18:23 32:5 36:3 48:2 51:14 60:20 62:15 64:2 79:10 80:25 81:18 81:20,24 82:2 83:2,7,25 87:1,16 89:7 90:4 91:22 96:20 97:9 98:10 117:9 118:11 132:8 135:9,14 139:16</p> <p>against [5] 11:25 67:1 68:4 90:3 137:6</p> <p>agencies [14] 24:8,10,15 24:18 31:23 32:3 35:13 53:25 64:20 83:10 88:5 108:9 116:3,9</p> <p>agency [23] 3:18 4:21 7:8 21:15 24:16 25:6 28:4 33:11 36:9 52:7 54:8 81:17 82:23,25 85:4 108:17,17 115:12,18 117:14,17,21 118:1</p> <p>agenda [33] 6:2,3,15,17 7:6,20 8:11,14,17,24 9:17 11:10,14 12:4,9,24 21:13,25 23:5 26:17,18 26:19 34:6 52:18 53:21 58:12 61:1 81:11 107:20 115:18,22 117:19,20</p> <p>agendas [1] 10:5</p> <p>ago [1] 147:10</p> <p>agree [6] 76:8,9 103:7 105:25 116:20 138:24</p> <p>agreeable [1] 56:23</p> <p>agreed [3] 33:11 83:14 117:23</p> <p>agreement [11] 29:1,2 32:11,14 33:6,12,18 35:3 82:24 108:14,22</p> <p>agricultural [1] 143:25</p> <p>agriculture [2] 144:5 144:15</p> <p>ahead [5] 78:11 107:25 117:15 125:2,4</p> <p>air [2] 126:12,13</p> <p>Alameda [10] 17:10 78:5 79:21,21 80:1,3,8,9,12 92:8</p> <p>alarm [1] 98:24</p> <p>alarms [1] 87:5</p> <p>all-inclusive [1] 66:16</p> <p>allegations [1] 131:15</p>
--	--	---	--	---

allocated [1] 15:25	78:24	assessor [2] 137:17 139:17	balance [1] 54:7	biodegradable [1] 21:19
allocation [1] 64:3	applications [2] 69:1 77:9	assistance [20] 44:2 61:25 62:1,22 64:11,24 65:19,24 66:14 68:20,22 69:2 70:22,23 71:7 72:7 72:12 73:1,3 77:15	ball [1] 44:7	biological [1] 102:16
allow [4] 30:7 61:13 84:13 116:4	applied [4] 67:11 104:20 120:22 137:3	assistances [1] 67:24	bang [2] 70:10 71:16	birds [2] 51:2 148:18
allowed [6] 16:2 45:14 61:12 63:9 68:4 95:2	appreciate [2] 13:14 33:3	Assistant [3] 60:13 63:11 76:24	barbecuing [1] 90:22	Bis [3] 133:18,23 135:13
allowing [2] 85:2 90:17	appropriate [8] 9:24 22:2,17 49:24 67:23 73:9 74:23 140:1	Assn [1] 2:8	barrier [8] 106:15,16,17 106:20,20,21 107:3,7	bit [8] 5:14 37:24 41:24 63:1 84:18 87:15 125:2 139:3
allows [1] 59:25	appropriated [1] 63:25	associated [3] 83:20 110:25 136:14	barriers [3] 105:12 106:19 107:4	blood [1] 68:11
almost [1] 17:20	approval [5] 6:2 12:25 17:22 43:20 45:21	association [1] 28:23	base [8] 37:3 59:10 87:9 89:7,8 146:11,13,24	bloodstream [1] 139:16
along [6] 10:21 65:7 70:21 103:25 146:24 147:12	approve [4] 18:4 19:16 50:9 75:13	assume [3] 52:23 86:18 125:8	based [11] 17:15,19 18:7 18:23 35:2 42:5 46:11 74:16 79:6 80:3 89:11	board [26] 1:2 24:11 26:21 35:13,20 97:17 104:7,10 106:2,6 108:3 108:24 109:11 110:1,8 111:6 119:11,12,15,16 120:4,10,11,15,25 121:5
alternative [2] 30:10 96:11	approved [5] 12:24 39:1 57:19 76:20 77:7	assumed [1] 125:15	bases [2] 37:3 98:16	Board's [3] 104:8 105:4 106:13
alternatives [5] 35:2 95:15,20,22 97:22	approving [5] 13:10,11 18:1 19:5,9	assumptions [1] 130:13	basic [5] 26:24 45:5 46:7 61:7,16	Boards [1] 61:6
always [8] 45:24 52:7 76:14,17 131:5 137:25 143:14 144:4	approximate [1] 147:1	assurance [1] 28:17	basin [4] 111:3,4,5,8	Bob [1] 112:20
Amado [2] 2:17 3:23	April [14] 43:22 45:6,24 55:25 56:8 57:1 114:4,7 114:19,22,24,25 122:12 122:13	assured [2] 46:10 87:20	basis [2] 116:5 126:14	bolded [1] 65:4
ambient [5] 120:20,21 127:12,18 138:13	aquifer [1] 129:11	attempts [1] 98:1	bathing [1] 148:11	bombs [2] 102:19,21
amenable [1] 16:23	Arc [4] 2:20,21 3:20,21	attend [3] 55:12,14 114:2	batteries [1] 131:14	bore [2] 128:20,21
amend [5] 11:16 16:13 22:14 53:18 57:5	area [49] 25:1,2 26:3 27:20,22 28:1,8,24 35:9 36:10,12 40:19 52:19 53:13 54:14 57:13 85:21 87:22 92:4,6,10 93:19 93:21,24 98:16 103:12 103:21,24 109:16,19,23 110:2,3,17 112:22 118:6 121:25 123:10,12,14,18 124:18 126:8 131:1 132:2 133:5 140:22 146:8 148:5	attendance [1] 3:12	bay [15] 2:10,13,19 3:15 4:22 86:1,24 92:6 98:16 100:11 102:3 103:14 106:12 107:7 119:25	borings [2] 131:16 132:14
amended [2] 11:19 16:25	areas [5] 27:16 37:11 51:25 103:22 120:7	attended [1] 47:22	Beach [2] 1:3 69:11	Bosche [36] 2:4 4:3,3,12 12:5,10,17,22 20:15 58:3 101:2,13,17,19 115:10 115:17 121:10,13,20 133:12 134:17,25 138:5 140:10,17,24 141:5,10 141:24 142:7 144:16 145:11 146:4,16,19 147:15
amendment [1] 53:15	Arizona [1] 81:7	attention [1] 109:25	become [3] 38:13 91:7 134:16	boss [1] 59:21
among [1] 68:22	Army [2] 27:21 112:12	AUDIENCE [1] 2:16	becomes [2] 90:15 98:16	boss's [1] 59:21
amount [4] 42:6 70:1 78:13 148:1	arranged [1] 45:18	audit [1] 71:18	beginning [4] 6:9,12 115:20 117:21	bottom [2] 100:24 143:11
analysis [5] 35:2 36:7 127:2 130:10 132:18	arrived [1] 101:25	August [1] 129:25	behalf [1] 3:6	box [5] 21:18 22:5,11 59:18,19
analytical [1] 132:12	arrows [1] 59:3	authorities [1] 61:16	behind [1] 38:14	boxes [1] 60:2
analyze [1] 124:24	arsenic [1] 133:3	authority [4] 61:7,9,17 108:23	believes [3] 76:3 110:4 120:4	brand-new [1] 40:24
analyzed [4] 122:24 129:1 132:5,11	article [1] 148:9	availability [1] 56:13	below [2] 125:14 130:2	break [6] 7:14,15 21:8 58:10 59:11 149:1
Andal [3] 2:17 3:23,23	ascertain [1] 49:4	available [30] 16:4 18:5 18:8,10 30:5 38:13 45:6 46:20 49:4 54:6,20 55:8 55:20,22,24 56:1,4,7,11 57:8 65:9 67:24 76:4,6 77:22 78:13 81:8 111:7 111:8 140:24	beneficial [2] 15:9 51:18	breathing [1] 148:12
animal [2] 139:10,14	aspect [4] 82:20 84:14 87:23 91:15	award [2] 39:25 40:23	benefit [1] 6:14	brevity [1] 23:14
animals [2] 90:18 139:12	aspects [2] 82:18 86:25	awarded [6] 29:23 40:1 40:3,13,21 42:17	benzene [2] 126:13,21	brief [1] 47:8
announce [1] 44:12	assembly [12] 57:23 109:14,15,18,20 110:3,6 110:10,13 112:22 113:5 113:7	awarding [1] 71:10	benzene-affected [1] 126:17	briefing [1] 31:23
announcements [5] 12:7,11 23:6 44:10 52:19	assess [1] 89:19	awards [3] 29:20 30:2 30:13	benzo [7] 124:18 132:7 132:10 138:3,5,18 139:1	briefly [5] 11:7 81:17,19 81:25 122:3
annual [4] 30:24 63:3 71:2 75:9	assessed [1] 90:24	aware [6] 15:14,17 120:10 140:17 141:8 144:19	best [14] 14:18 27:3,6,15 28:10 41:15 51:11 56:17 56:19 70:10 73:15,16 75:15 76:15	bring [7] 15:13 38:18 70:18 73:14 79:2,14 148:8
anomalous [1] 135:21	assessment [27] 26:22 26:23 28:2 36:9 44:20 45:20 46:18,25 47:7 48:9 48:19 49:11 50:9,24 51:15 90:21 112:10 122:4 125:12 128:25 135:19,23 139:4,5,6,19,20	awareness [1] 121:15	between [6] 7:15 15:2 52:7 59:12 123:3 136:15	brought [9] 32:17 79:10 79:21 86:8 106:9 109:25 110:6,7 115:21
answer [9] 42:15 52:6 79:12 85:25 86:21 94:24 97:12 111:21 140:5	assessments [1] 89:18	away [3] 83:15 88:11 91:9	beyond [1] 109:7	BTEX [1] 126:21
anticipate [2] 41:13 43:20		ayes [5] 12:2 17:3 19:22 22:23 50:18	big [6] 97:1 100:14 101:3 136:23 143:25 144:5	buck [2] 70:10 71:16
anyway [5] 30:22 80:2 115:14 137:19 147:9		-B-	bigger [1] 91:7	budget [13] 15:21,24 30:17,18 31:13 42:1,5,6 42:21 63:22 64:5,14 98:13
anyways [1] 32:18		b [3] 65:25 66:12 131:1	Bill [2] 2:24 80:15	budgeted [1] 40:18
apologize [4] 60:20 77:18 97:10 132:18		back-of-the-envelope [1] 98:5	binding [1] 108:22	
appeal [2] 76:21 77:2		background [11] 49:1 85:22 127:13,15,17,21 136:6 138:13,15,17,18	bioavailability [1] 139:13	
appeals [1] 76:19				
appear [2] 133:8,8				
appetite [1] 52:13				
applicable [1] 52:15				
application [8] 44:8 68:18 69:3,5 72:2,4 74:8				

<p>budgets [1] 41:2 build [1] 147:11 building [7] 28:10,16,17 28:18,21 36:4 130:25 buildings [1] 131:1 bulletized [1] 26:17 bullets [3] 23:15 26:18 64:8 bunch [1] 40:17 burn [1] 118:6 burned [2] 123:25 138:16 burners [1] 126:9 burning [1] 123:20 burns [1] 124:3 business [12] 7:7,16,16 37:25 58:8 70:8 74:14 74:14,16,17 81:11 107:20 businesses [1] 38:1 bylaws [4] 43:8,13,14 43:19</p> <hr/> <p style="text-align: center;">-C-</p> <p>C.S.R [1] 150:24 Cadillac [1] 70:17 calculate [1] 89:19 calculated [1] 135:24 calculations [2] 98:2,6 calendar [1] 53:2 California [7] 1:17,23 69:11 81:6 150:1,6,24 callout [1] 132:25 cancer [8] 135:25 136:1 136:5,7,8,21 137:2,8 Candlestick [1] 102:4 Canepa [17] 2:5 4:5,5 7:12 14:7 17:17 20:7 25:20 38:18,25 47:19 49:12,20 50:6 53:9,11 55:1 cannot [4] 29:21,25 76:8 76:9 cans [1] 102:14 cap [18] 82:22 83:11,18 83:20 84:1,10,20 88:4 88:17 90:6,17 91:1,9 94:16 98:10 101:8 105:10 105:24 capped [1] 142:16 capping [2] 104:24 105:24 caption [1] 150:15 capture [2] 143:4 144:6 Carmen [2] 111:24 112:21 Carolyn [5] 2:7 5:3,5 14:9 20:8 carried [1] 50:19 carries [2] 17:6 40:22 carrying [1] 30:14 cartography [1] 105:17</p>	<p>cartridges [1] 123:23 carve [1] 84:5 case [12] 15:7,8 37:19 60:19 69:25 70:23 75:14 75:17 88:15 105:4 137:21 138:22 cases [2] 139:14 144:19 casings [1] 142:4 cast [1] 104:24 casting [1] 105:2 cat [1] 22:11 catch [1] 117:5 categorized [1] 104:15 category [1] 86:17 causes [1] 138:9 ceiling [2] 63:24 78:17 center [6] 1:15 45:19 46:24 75:18 93:22 106:24 Central [1] 138:17 century [1] 147:8 CERCLA [3] 48:15 122:2,20 certain [4] 8:4 16:2 41:25 100:12 certainly [3] 8:15 15:11 67:22 certification [4] 72:10 73:9 78:21 79:16 Certified [4] 1:22 150:4 150:9,23 certify [2] 150:6,13 Cesar [1] 114:3 chain [1] 108:11 chair [2] 11:4 55:7 chairs [2] 21:10 22:16 chance [5] 52:2,4 81:23 89:14 97:15 change [6] 7:10,13 18:18 89:14 99:5 134:17 changed [5] 102:23 117:21 134:2,6 147:2 changes [8] 31:5 33:7 33:12 34:8,13 40:15 43:18 48:3 changing [2] 18:25 84:8 channel [3] 146:14,22 147:4 characterization [1] 89:5 characterize [2] 112:7 149:10 characterized [1] 106:4 charge [1] 69:9 chart [5] 58:14,21 60:1 68:15 94:20 charts [5] 58:24 59:11 60:1,18 124:15 Chavez [1] 114:3 check [5] 17:16 71:19 138:2 140:15,21 checking [1] 96:22</p>	<p>cheese [1] 91:24 chemical [4] 28:5 34:19 139:10,15 chemicals [4] 123:23,24 137:1 139:12 chicken [1] 41:8 Chief [1] 59:4 child [2] 125:9 144:1 choose [2] 44:19,24 Chorus [4] 17:3 19:22 22:23 50:18 Chris [2] 2:20 3:21 circle [1] 96:21 cite [1] 79:14 citizens [1] 108:6 city [7] 2:6,22 3:25 4:10 5:1 10:22,22 clarification [2] 6:7 118:23 clarified [1] 41:24 clean [12] 29:7,17 30:12 36:18,19,25 37:2,10,12 37:15 75:16 100:18 cleaning [4] 131:2,4,5,9 cleanup [3] 4:14 67:21 98:17 clear [3] 39:8 73:2 129:21 clear-cut [1] 137:21 clearest [1] 96:7 clearly [1] 96:24 click [1] 86:22 climate [2] 41:7 79:4 clogged [1] 93:12 close [2] 91:12 113:3 closed [2] 8:6 141:21 closeout [1] 70:25 closer [2] 82:19 84:19 closure [1] 59:10 cloudy [1] 129:13 Clyde [2] 1:15,17 co-chair [15] 2:2,3 3:8 4:17,19 5:25 7:4 8:11 13:1 43:8 52:25 68:19 69:3 77:10,11 code [2] 59:5 61:10 codified [1] 61:11 collect [1] 128:13 collected [1] 117:12 college [1] 80:2 collocated [1] 128:20 column [3] 127:14,23 128:2 combine [1] 47:5 combined [1] 130:9 comfortable [3] 13:10 18:1 19:5 coming [9] 26:12 29:15 75:25 87:3,10 101:7 142:22 148:2 149:15 command [4] 59:13,15 76:23 108:11</p>	<p>commander [4] 69:6,7 75:12,15 commanding [5] 59:12 59:14,20 69:10 76:20 comment [30] 6:8,9,12 6:15,17,24 8:9 9:3,6,16 10:3 12:4 13:4,14 14:20 19:8 21:18 28:3,4 36:17 38:8 49:2 82:4 85:5 99:22 103:3 121:14 122:17 146:5 148:23 commented [1] 32:10 commenting [2] 18:25 82:2 comments [52] 5:20 6:5 7:9 16:16 19:13,14 20:1 20:5,7 21:15,16,24 22:2 22:4 24:16,18,20,21 25:6 25:7,9 32:13,15 33:4,10 36:1,9,15 41:14 81:13 81:18,25 84:1 86:8 97:18 101:23 105:16 113:24 114:10,18 115:13,19 116:16,24 117:4,17 118:2 118:17 119:19 121:8 122:10 134:7 commission [2] 10:22 100:4 committee [6] 23:6 43:19 44:1,1 78:23,23 communicated [2] 108:8 112:21 communication [1] 94:8 communities [4] 83:17 92:18 98:23 100:7 community [27] 1:15 3:12 4:19 5:24 8:11 9:5 21:2 43:7,25 44:15 47:10 52:25 57:7 61:5 62:19 62:20 66:1 68:13 80:4 86:5 88:23 91:13 100:12 100:23 102:7 107:23 110:4 compare [2] 48:22 125:5 compete [1] 64:12 competition [1] 64:9 complete [5] 63:4 75:6 78:14,24 119:21 completed [5] 122:5,9 122:11,14,16 completely [2] 27:23 140:22 completeness [1] 29:8 completing [2] 31:12 34:24 complicated [2] 69:15 139:7 comply [3] 37:25 69:16 69:19 component [2] 33:16 105:23 components [1] 121:4 compound [1] 126:22 comprehensive [2] 29:7</p>	<p>48:14 concentration [4] 125:20,24 127:17,18 concentrations [15] 124:22 126:1,5,18 127:7 127:13,15,20 128:1,17 129:15 135:4,10 139:1 139:11 concern [8] 20:24 21:2 36:10,12 112:21 137:21 138:23 143:23 concerned [7] 66:17 86:16 108:6 110:16 111:4 111:13 148:20 concerns [6] 82:6,7,8 89:16 118:17 145:18 conclude [3] 130:2,5 140:1 concluded [2] 126:25 130:21 conclusion [1] 128:15 Concord [25] 1:3 2:2,6 2:14,22 3:25 4:11 5:2 16:1 23:20 25:25 29:14 30:5 31:3 32:14 33:5 43:14 64:1,14 69:9,10 72:15 100:7 109:16 110:17 concrete [3] 106:17,20 107:6 concur [3] 104:17 105:19 109:11 concurs [1] 119:23 condition [3] 86:3,5 90:11 conditions [3] 18:2 62:12 66:5 conduct [1] 27:15 conducted [9] 49:11 81:7 119:3 122:4 126:16 126:19 131:18,23,25 conducting [7] 23:21,24 28:14 45:22 68:9 80:18 124:6 cone [1] 106:22 confer [1] 48:7 confirm [1] 103:5 Congress [3] 30:24 71:2 75:10 connect [1] 112:4 consensus [3] 9:25 72:21 79:7 consent [2] 26:5,7 consented [1] 45:15 conservative [1] 126:2 consider [7] 15:11 16:24 53:4 77:5 78:25 91:22 138:8 considerably [1] 19:3 consideration [2] 43:21 78:25 considered [5] 67:16 79:5 80:21 93:16 136:23 considers [2] 136:15</p>
--	---	---	---	--

138:7 consistent [1] 87:17 constituent [7] 125:11 125:14 130:6 132:8 137:6 137:7 138:8 constituents [8] 124:16 124:23 128:19 130:21 132:4 135:8,20 137:22 constraint [1] 49:9 constraints [1] 51:9 constructed [3] 26:16 103:11 143:12 consultant [3] 46:21,22 116:22 contact [10] 17:13 60:6 60:14 77:11,24 80:1,2 80:11 111:22 136:13 contacted [1] 112:20 contain [2] 92:20 97:3 containers [1] 102:15 containment [2] 83:11 96:16 contains [1] 96:4 contaminant [1] 125:19 contaminants [4] 87:24 88:12 120:23 125:18 contaminated [1] 127:12 contamination [5] 26:2 26:12 67:10 128:21 142:22 context [2] 116:23 119:20 continental [1] 40:10 contingent [1] 45:9 continually [1] 42:21 continue [12] 9:12 11:13 26:4,5 82:9 84:14 92:23 99:7,13,21 103:1 113:20 continued [1] 99:16 continuous [3] 125:8 130:13 136:4 Contra [5] 2:8 4:24 145:25 147:11 150:2 contract [27] 29:4,6,8 29:13,15,17,18 30:12 36:19,20,24 37:2,7,15 38:1,4,10 42:5,8,10,11 42:17 43:1 70:16 71:11 74:10 75:16 contracting [3] 61:15 70:13,21 contractor [4] 36:25 37:19 70:11 79:24 contractors [2] 37:21 80:5 contracts [10] 30:10,12 37:10,12,18 38:2 69:17 69:22 71:14 149:9 contrary [1] 40:14 contribute [2] 65:20,25 control [11] 4:2 24:11 24:11 42:13,15 104:7,10	108:24 110:1,8 111:6 controlled [3] 16:8 27:21,23 controls [1] 28:19 convenience [1] 27:24 convenient [2] 49:22 50:1 convert [1] 32:23 convoluted [1] 39:23 Cooper [5] 2:18 3:17,17 79:19,19 coordinated [1] 24:8 coordinates [2] 110:11 111:11 coordination [2] 24:14 29:5 copied [1] 32:18 copies [9] 13:2 32:8,16 32:17,25 35:4 38:13 82:1 111:7 copy [4] 13:19 32:20 111:9 118:10 corporate [1] 7:22 correct [7] 38:16 39:16 39:21 40:4 49:19 80:23 94:22 corrected [1] 20:12 correction [3] 21:14 22:8,15 corrections [3] 18:4,7 20:12 correctly [3] 47:12 142:21 143:11 correspondence [2] 79:5 119:2 cost [9] 15:12 41:16 63:4 65:9,10,15 70:3 78:14 98:8 Costa [5] 2:8 4:24 146:1 147:11 150:2 costs [6] 15:13 16:5 31:2 42:19,25 121:15 COTR [5] 70:12,15,21 70:24 71:9 council [1] 10:22 count [1] 11:24 County [3] 2:8 146:1 150:2 couple [8] 35:6,19,23 43:16 85:7,17 91:8 109:13 course [10] 6:16 29:9 45:9 60:7 66:15 68:2 72:5 73:21 100:9 147:2 court [6] 5:7,9 7:13 21:8 121:16 148:25 courtesy [1] 109:8 coven [1] 20:19 cover [3] 8:20 33:9 37:11 covered [1] 122:8 covers [3] 37:2,4,13 craft [1] 27:11	crawl [1] 28:22 credentials [1] 73:6 creek [11] 131:8,10 146:14,15,19,22 147:4,6 147:9,14,16 creeks [1] 147:23 criteria [8] 64:16 105:8 107:12 120:22 133:20,21 135:14 137:4 crossed [1] 147:22 current [6] 40:25 46:11 91:1 112:25 113:2 134:13 cut [4] 9:11 18:24 45:13 47:19 -D- D.C [1] 31:8 Daily [1] 110:20 damaged [1] 90:17 damages [1] 91:16 dangerous [4] 86:20 98:19,20,22 data [11] 31:1 68:5,7 105:21 112:9 117:12 120:3 121:1 122:21 135:17 149:12 database [8] 30:17,18 30:19,23 31:5,6,7,8 databases [1] 30:25 date [16] 7:25,25 44:25 45:2,16,20 49:25 50:9 50:24 51:12 53:5 57:8 57:11 66:18 114:19,20 dated [2] 118:10 119:13 dates [2] 54:21 114:22 Dave [3] 59:7,8,12 David [6] 2:6,18 3:17 5:1 43:11 79:19 Davis [1] 81:6 days [4] 46:2 76:23 79:2 102:20 dead [1] 64:25 deadlines [1] 39:12 deal [11] 25:16 70:2,16 75:24,25 92:17 93:14 94:11 109:1,1 111:16 dealing [6] 25:17 28:7 67:6 87:2,19 91:16 deals [1] 84:9 Dean [4] 2:8 4:24 6:6 39:4 debris [1] 131:7 December [9] 12:25 13:3,24 17:23,24 19:16 47:13 82:4 119:13 decide [3] 45:1,2 84:15 decided [2] 12:19 100:17 decision [26] 11:12 15:22 34:21 39:11,12 44:18 80:18,20,22 82:3,5,16 82:19 84:4,7,7,9,13 87:1 108:11 116:5 117:10 118:12,13,19 149:5	decision-makers [1] 24:23 decision-making [1] 62:10 decisions [6] 27:6 68:9 91:5,6 96:21 118:16 declining [1] 42:21 decrease [1] 129:22 decreases [1] 67:13 decrees [2] 26:5,7 deep [2] 128:8 144:18 Defense [3] 68:4,8,10 deficiency [1] 118:25 defined [1] 105:18 definitely [1] 133:12 definition [2] 80:21 101:24 delay [3] 19:2 86:25 87:23 delayed [1] 42:12 demonstrate [1] 62:21 demonstrated [1] 73:22 demonstrates [1] 64:19 deny [1] 120:16 department [6] 4:1 24:10 68:4,8,10 124:3 dependent [2] 115:13 115:16 depending [1] 27:11 deposits [1] 97:6 depression [1] 106:22 depth [1] 136:10 Deputy [3] 60:13 63:11 76:24 describe [2] 54:4 123:8 described [2] 136:2 147:22 description [3] 91:20 119:5 123:6 design [4] 82:21 83:20 144:9,12 designate [1] 103:18 designated [1] 103:12 designations [1] 103:19 designed [4] 105:25 144:6,8,15 desire [1] 113:20 destroyed [2] 123:20,25 destruction [3] 91:13 100:10 123:19 DETACHMENT [1] 1:3 detail [2] 23:17 139:5 detailed [4] 51:17 79:15 105:16 137:17 details [3] 48:17,21 137:15 detect [1] 142:11 detected [11] 124:17,17 124:19,22 126:12 128:1 130:18,18 132:24 135:8	135:15 detection [1] 135:16 detections [3] 87:6 132:6 133:22 determination [2] 70:9 72:1 determined [4] 68:17 69:12 94:21 126:14 determining [1] 127:12 detrimental [1] 139:25 devastated [1] 100:3 develop [1] 84:23 developed [2] 95:12 125:7 devoted [1] 45:11 Diablo [1] 146:14 dialogue [1] 15:1 diameter [1] 142:1 Diego [3] 29:11 45:4 48:7 diesel [3] 124:20 126:20 133:21 differences [1] 48:3 different [13] 46:18,19 87:10,11 90:1 96:9 98:1 116:14 122:7 137:2,4 139:9 145:9 difficult [3] 31:10 99:25 116:25 dig [4] 83:14 86:19 92:17 98:6 digging [1] 99:3 diminish [1] 92:25 diminished [1] 43:3 direct [1] 64:2 direction [3] 4:6 123:19 150:12 directly [7] 24:8 62:5 63:22 64:16 77:9,15 78:1 director [1] 59:7 dirty [1] 129:13 disadvantaged [1] 38:1 disagreements [1] 33:15 discharge [3] 110:23 131:3,10 discovered [1] 134:5 discretely [1] 130:16 discretion [1] 63:11 discuss [4] 8:21 25:5 26:21 79:8 discussed [11] 10:9 27:13,14 28:1,5,8,15,25 38:24 79:10 146:6 discussion [30] 6:18,25 8:6 10:14,18,25,25 11:6 11:8,13,20 12:13,21 14:5 17:22 18:14 58:13 82:10 92:23 99:8,8,13,16,23 103:1,2 104:3 113:9 119:15 149:3 discussions [11] 8:2 32:6 33:21,24 52:5 83:13,19
--	--	---	--	--

83:23 84:19 95:9 118:22 disinterested [1] 150:10 disposal [3] 93:24 103:13,21 dispose [1] 102:12 disposed [2] 89:3 92:9 disputes [2] 68:9 80:19 disseminating [1] 75:7 distribute [2] 38:16,21 distributed [5] 20:10 23:11 43:19 124:8,12 distribution [1] 124:15 District [1] 147:11 disturbed [1] 146:8 divided [1] 27:19 division [5] 29:11 30:10 59:14,20 146:1 doable [1] 54:9 Doctay [1] 45:18 document [15] 12:18 20:9 33:8,14 62:24 69:24 72:12 78:21 79:24 93:19 118:16 120:12 122:6,7 122:21 documentation [3] 71:7 118:18,20 documented [3] 18:22 71:1 109:24 documenting [1] 33:10 documents [4] 24:19 34:22 52:21 66:19 DoD [8] 65:2,8 68:19 69:3 70:25 80:18,19,22 doesn't [16] 9:11 15:23 16:20 40:9 42:17 65:4 72:17 97:7 100:20,21 112:24 125:24 133:8 135:10 137:7 139:15 dollar [2] 29:9 74:16 dollar-wise [1] 121:18 dollars [3] 30:5 63:7 74:18 done [31] 7:8 8:5 14:16 23:3 31:11 42:24 44:3 54:5 63:13 72:1 73:17 74:11 75:6 82:11 86:11 89:1,5 91:10 95:18 96:6 96:12,16 97:25 98:5 118:21 119:22 120:8 124:5,9 139:19 141:18 door [1] 19:1 dotted [1] 140:23 dovetail [2] 52:3 53:25 down [23] 5:13 7:23 8:18 9:14 33:24 45:13 51:17 59:3,7,11 71:4 73:14,23 86:19 103:24 107:7,10 126:11 133:5 134:20 142:23 144:1 145:23 downloaded [1] 31:7 dozen [1] 30:25 draft [9] 16:14 18:24 36:5,7 78:24 82:2,5	118:11 122:9 drafting [2] 34:24 101:22 drain [1] 94:7 draining [1] 93:24 draw [1] 40:18 drawings [1] 123:9 drawn [1] 42:18 drilled [1] 140:10 drilling [6] 35:15,21 86:12 140:7,8 144:21 drink [2] 129:14 148:7 drinking [8] 129:12 130:3,11,12,15 143:15 148:13,14 drive [2] 54:16 138:25 driven [1] 120:6 driver [2] 65:7 136:23 dropped [1] 34:6 DTSC [2] 2:23 65:2 due [2] 120:24 138:1 dug [4] 91:8 98:22 123:13 123:21 dump [4] 86:10,13 120:15,17 dumping [1] 131:15 duplication [1] 16:6 duration [3] 57:22 137:3 137:8 during [14] 4:6 6:16 12:19,21 21:8 24:13 26:15 30:16 36:24 44:21 45:6 106:7 113:19 131:18 duties [4] 26:25 70:13 70:14 71:10 duty [2] 56:9 110:9 dying [2] 67:4 137:5 -E- e [1] 61:11 e-mail [6] 8:22 79:1,1,4 79:7,9 ear [1] 15:7 early [1] 45:23 easier [2] 87:18 89:8 easily [1] 65:23 eastern [1] 37:16 easy [5] 5:12 62:24 80:10 92:16 96:2 eco [3] 46:20 47:6 51:19 eco/ecological [1] 52:5 ecological [11] 26:23 28:2 44:20 51:14 94:1 118:24 139:5,6,16,21,23 Ecology [4] 2:20,21 3:20 3:22 Economist [1] 148:10 Eddy [1] 80:11 edition [1] 104:12 educated [1] 66:8	educational [1] 73:6 EFA [11] 16:1 29:4,5 40:9 45:18 68:21 71:11 71:13 74:11 76:21 77:12 effective [1] 143:13 effectiveness [1] 65:20 efficiency [3] 8:24 65:20 144:4 efficient [1] 121:18 effort [9] 14:18 38:5 40:20 41:15 63:21 75:4 121:23 126:24 131:22 efforts [2] 34:7 71:1 either [8] 24:3 91:9 92:17 114:18 130:22 134:23,25 139:17 elaborating [1] 81:24 electronic [1] 32:20 electronically [1] 32:18 element [1] 74:13 elements [2] 64:15 65:6 eligibility [2] 71:9 72:3 eligible [2] 66:15 67:25 Elimination [1] 110:23 EMI [3] 2:4,5,7 emotional [1] 100:2 employed [1] 29:12 employee [1] 3:24 encircled [1] 122:22 encompasses [2] 123:10 130:25 encountered [2] 147:19 147:21 encountering [1] 87:11 end [7] 6:9 7:25 10:13 29:16 34:17 75:3,4 endangered [1] 28:23 endangerment [1] 111:13 endless [1] 127:21 ends [1] 77:17 engineer [2] 147:20,22 engineering [6] 29:12 30:8 59:15,17 62:2 76:23 enhance [1] 62:9 enjoined [1] 30:9 ensure [1] 90:16 entered [4] 13:18,25 16:17 108:14 entire [2] 22:6 72:13 entirely [1] 109:6 entity [1] 75:17 environment [2] 60:14 127:10 environmental [18] 3:18 4:21 29:7 45:19 46:22,24 58:19 59:1 62:3 64:21 65:21 66:1,9 67:20 75:18 98:17 131:5 146:1 environments [1] 138:19	EPA [41] 2:11,18 24:9 31:19 32:9,12 33:11,22 35:20,23 47:1,1 65:1,8 75:15 79:20 82:4 84:25 89:17 91:18 93:16 94:13 94:19 95:10 101:18,23 104:17 105:20 108:14 109:9 118:8,9,12 119:8 119:23 127:4 134:3,13 136:14 138:6,24 EPA's [4] 82:1 84:1 92:1 134:7 Epidemiological [1] 68:11 equal [1] 78:13 equivalent [2] 148:12 148:13 errors [1] 104:19 especially [2] 5:18 142:17 essentially [35] 6:19 20:14 24:17 27:20 28:6 29:5 31:15 32:3 33:9,12 34:14 37:5,15 39:24 43:13 46:13 59:18 60:16 61:24 62:17 68:16 72:8 73:4 75:7 84:6 85:2 88:1 88:9 90:10 98:18 100:3 100:16 103:7 104:1 147:17 establishing [1] 96:21 estimate [1] 70:4 estimated [2] 10:25 127:25 estimates [1] 8:2 ETAC [1] 108:16 ethylbenzene [1] 126:21 evacuate [1] 147:25 evaluate [11] 26:6 70:8 91:6 95:15 96:25 125:7 127:11 135:20 137:18 139:11,13 evaluated [4] 95:21,21 127:3 137:23 evaluates [1] 25:14 evaluating [1] 102:24 evaluation [7] 71:8 72:2 125:22 127:16 137:2,14 139:9 evaluations [1] 66:23 Evelyn [3] 108:5 109:12 110:15 evening [7] 3:3,14 12:4 19:10 23:11 38:24 44:23 eventually [3] 27:17 32:22 91:12 everybody [7] 3:10 5:18 15:17 56:23 73:14 97:14 117:23 everyone's [1] 41:5 evidence [2] 101:5 131:21 exact [2] 16:9 62:6 exactly [3] 38:11 49:20 112:11	examined [1] 97:22 example [3] 40:16 92:5 128:21 excavation [2] 97:23 120:6 exceed [2] 70:1 135:13 exceedance [4] 125:23 128:22 130:9 135:10 exceedances [12] 127:5 128:3,12 129:2,3 132:19 132:21 133:2,18,19 134:12 135:5 exceeded [7] 128:5,6,7 128:9,10 130:11 132:8 exceeds [3] 125:19 126:6 126:23 except [2] 58:24 90:13 exception [2] 54:11 58:25 exceptions [1] 6:4 excerpts [2] 20:23 21:1 excess [3] 136:7,8 137:5 Excuse [2] 55:9 148:24 execute [1] 42:11 exist [2] 20:16 138:16 existence [2] 20:18 120:16 existing [4] 52:3 140:9 142:20 143:8 exists [2] 138:13,14 expanded [1] 131:19 expect [5] 35:1 83:22 85:5 89:6 95:7 expediency [1] 52:22 expedient [1] 102:13 expedite [2] 11:5 44:7 expeditiously [1] 71:25 expend [2] 15:20 16:3 expended [3] 29:22 42:23 75:5 expending [1] 42:16 expenditures [1] 63:3 expensive [3] 98:19 100:16,17 experience [8] 48:10 60:21 63:14 68:25 73:8 73:22 74:1 77:14 expertise [2] 64:22 65:2 explain [4] 5:6 66:6 73:17 117:9 explanation [1] 79:16 explanatory [1] 72:24 explosives [2] 89:3 123:24 expose [1] 92:18 exposed [2] 136:12 148:16 exposure [6] 125:10,16 130:13 136:4 137:3,12 exposures [2] 90:2 99:2 expressed [1] 118:17
--	--	---	--	--

extended [1] 44:14	Fewless [1] 111:24	119:5	63:19,21	63:8,15,19,20 64:2
extension [1] 81:8	FFA [4] 33:1,12 108:16	follow [2] 59:3 108:20	funded [4] 68:12,14	granted [3] 63:10 67:14
extensive [2] 24:14	108:18	follow-up [1] 107:22	70:18 77:4	77:3
48:16	field [6] 24:4 29:12 30:8	followed [2] 26:7 54:24	funding [12] 16:10 30:8	grants [2] 77:15 147:5
extent [1] 141:5	35:14 59:17 118:21	following [1] 40:16	39:6 41:7 61:13,13,18	gravel [1] 147:21
extra [1] 43:16	figure [2] 15:21 98:7	follows [1] 139:8	63:9,17 64:2,10 72:17	GRAVES [3] 1:21 150:4
extractions [1] 96:15	figures [2] 134:1,8	Fool's [1] 114:7	funds [10] 15:24 16:3,4	150:22
extremely [2] 74:3 90:25	files [1] 78:1	footprint [1] 30:7	16:7 30:2 40:9 42:16	greasy [1] 131:7
eye [1] 15:8	fill [4] 21:14,15 33:2	Ford [1] 70:18	43:3 63:18 71:19	great [8] 72:22 78:9 93:1
	52:16	forecast [1] 41:7	future [4] 12:14 35:22	93:3,14 143:14,16 147:24
	filling [1] 148:1	forecasted [1] 40:24	78:9 101:23	greater [2] 98:9 138:21
-F-	filter [1] 129:7	forecasting [1] 41:12		greatest [1] 148:10
F-e-w-l-e-s-s [1] 111:24	filtered [3] 129:5,17,25	forever [1] 100:6	-G-	Griffith [12] 2:6 5:1,1
facilities [6] 32:10,14	final [16] 16:18 29:2	forklift [2] 118:7 130:24	gain [1] 82:17	43:12 115:6 134:15,23
33:5,18 59:15 76:23	32:15 36:3 61:19 68:8	forklifts [2] 131:4,13	gallon [1] 148:14	142:13 143:10 145:3
facility [7] 28:12,25	69:4 79:13 80:18,21 81:1	form [3] 69:4 124:21	gap [1] 87:12	149:7,13
80:10 91:12 108:16 118:7	82:2,5 84:8 118:11	127:6	gaps [2] 52:16 119:2	ground [42] 67:4 82:7
130:24	122:14	formal [3] 33:25 54:3	gas [2] 106:5 138:15	82:15,19 84:2,6,11,12
fact [14] 7:3 8:11 36:23	finalize [1] 36:3	84:22	Gay [6] 2:13 4:22 7:18	87:1,2,7,13,19,21,22
38:16 39:23 46:19 54:15	finally [8] 21:12 64:7	formalizing [2] 85:4	15:18 46:4 81:4	96:14,15,16,18,23 97:1
82:14 87:13 91:2 92:14	71:1 77:8 106:6 111:11	116:15	Gay's [1] 9:16	97:3,7 105:3,19,21,23
98:25 115:17 145:15	120:18,24	format [3] 7:22 10:20	gee [1] 65:1	118:23 120:3 129:1 130:6
fair [2] 141:9,10	fine [2] 97:6 118:3	10:22	general [10] 60:9 82:6	132:11,12,13,14 133:17
fairly [2] 62:24 129:21	finished [2] 101:19,21	formed [2] 43:25,25	83:10 90:3 97:7 103:9	135:8 136:12 140:11
fall [2] 47:22 80:21	finishing [1] 35:25	former [3] 140:14 146:14	121:15 134:15 141:20	142:11,18,19
falls [2] 86:17 125:14	fin [1] 28:11	146:22	142:14	groundwater [1] 35:17
familiar [2] 137:16	fire [1] 124:2	formulate [1] 85:1	generalized [1] 86:10	group [4] 10:1 25:15
146:7	firefighting [1] 124:1	forth [6] 16:6 40:11	generally [4] 89:4	76:13 83:3
far [14] 15:6 16:21 26:9	first [14] 7:8 23:6 35:7	51:10 66:6 76:6 131:14	123:11 131:2 142:4	grouping [1] 145:12
29:9 38:14 41:11 57:1,2	44:19 65:16 80:8 86:2	fortunately [1] 55:3	generated [2] 105:6,7	groups [3] 27:20 65:13
66:12 70:3 76:11,18	104:14 115:13,19 116:22	forward [3] 13:20 29:22	generating [1] 68:6	74:2
101:23 102:24	127:11 128:5,18	68:17	Generation [1] 68:5	guess [15] 15:7 21:17
farms [6] 140:14,23	fiscal [7] 29:21,23 30:3	forwarded [1] 69:6	gentlemen [1] 3:4	38:7 48:20 54:7,10 60:17
141:3,22 144:23,25	31:13 39:13,25 63:25	found [13] 86:4 87:6	geographic [2] 37:11	64:7 83:5 86:7 87:22
farthest [1] 128:2	Fish [2] 24:9 111:12	101:6 106:8 126:8 128:17	124:15	100:24 104:7 112:11
fashion [2] 105:11	fit [2] 43:14 116:23	131:21 133:2 134:19,21	geological [1] 148:21	141:15
114:16	five [8] 25:5,13 41:3 61:2	138:9 139:21 142:10	geologists [1] 97:5	guidance [5] 61:4 92:2
fast [1] 97:7	75:2 85:24 122:7 145:14	four [10] 23:23 32:13	geophysical [2] 120:9	94:19 95:5,12
faster [1] 32:23	five-minute [2] 7:15	33:4 58:3 63:7 74:21	142:3	guys [2] 5:10 14:17
fauna [1] 111:14	77:17	85:24 88:6 92:7 121:16		
favor [7] 11:21 17:2	five-year [3] 25:10,11	frame [1] 41:20	Gil [16] 2:12 12:7 14:21	-H-
19:21 22:22 50:17 57:14	26:10	framed [1] 8:7	18:24 23:8 31:17 32:5	H-a-w-e-l-l [1] 80:16
99:17	flag [1] 8:18	frames [1] 10:6	32:16 34:18 43:6 49:15	habitats [1] 51:24
feasibility [10] 34:21,24	flagging [1] 135:4	framework [2] 7:20 9:4	58:13,15 60:23,25 81:3	half [4] 27:9 30:25 37:16
35:3,25 36:5 95:16,19	flares [1] 123:22	free [3] 44:25 65:15 111:9	Gilbert [1] 4:13	37:17
95:24 97:24 145:21	flexible [2] 9:4 10:5	Freitas [4] 44:13 108:5	given [10] 32:19 41:25	half-day [1] 27:10
feature [1] 148:21	flip [1] 127:7	109:12 110:15	44:21 82:14 83:15 90:7	halfway [1] 7:14
February [15] 13:1,8,25	floodplain [1] 104:1	fresh-water [1] 147:7	90:24,25 125:3 137:11	hand [3] 17:5 23:3
17:23 19:9,15 20:1 23:13	floor [2] 31:18 114:13	front [3] 21:6 58:18	glad [1] 110:11	150:18
24:13 26:15 29:3 30:16	flora [1] 111:14	71:25	glass [1] 129:13	handed [2] 47:20,22
31:16 43:11 108:10	flow [4] 94:20 105:13,13	fulfilled [1] 65:23	goal [4] 62:9 125:20	handling [2] 12:6,7
federal [17] 28:25 32:10	147:24	full [4] 29:9 79:3 102:14	130:4 132:9	handout [1] 58:17
32:14 33:5,18 61:12,20	flowed [1] 146:24	129:13	goals [2] 125:5,6	hands [10] 11:22,23 12:1
62:6,8,17 64:19 69:16	flows [2] 147:13 148:5	full-blown [1] 48:5	goes [12] 20:20 40:7,9	55:21 56:3 57:15,16,18
71:20 79:14 81:1 103:18	fluid [1] 102:14	full-day [1] 27:10	59:3,6,22 66:3 68:2 69:3	99:18,20
108:15	focused [1] 95:19	fully [5] 39:6,8 40:17	109:7 110:24 134:25	happening [2] 29:5
feedback [1] 23:17	folded [1] 21:10	79:12 104:15	gone [4] 29:9 32:20 90:20	106:11
feeling [1] 117:1	folding [1] 22:15	fumes [1] 148:12	91:4	happy [3] 80:6 111:21
feet [4] 123:18 128:8	folks [15] 32:17,24 33:10	function [1] 93:17	good [8] 3:3,14 31:22	140:5
136:10 144:18	33:21 34:4 35:5,24 52:10	functioning [1] 93:13	52:2,9 70:15 72:22 74:3	harbor [1] 112:14
fence [2] 25:25 138:11	83:3,6,7 97:10 118:5,9	fund [4] 40:18 61:12	government [1] 71:20	hard [1] 98:15
few [10] 25:1,7 33:2 43:15			grain [1] 97:6	harmed [1] 137:6
48:21 54:17 81:17,22			grant [8] 44:6,8 61:17	hauled [1] 91:9
113:11 125:21				

<p>hauling [1] 83:15 Hawaii [1] 40:11 Hawell [3] 80:15,15,24 hazard [4] 135:25 137:9 137:20,25 hazardous [9] 67:7 73:5 83:21 86:9 89:2 101:4,6 101:9 102:11 hazards [1] 62:3 HC [1] 45:22 head [3] 16:4 78:4 97:8 headquarters [2] 37:13 38:6 health [23] 26:22 44:20 45:19,20 46:21,24,25 50:24 51:13 67:20 75:18 90:7 125:3,7,12,25 126:3 135:19,23 139:3,16,20 146:1 hear [14] 19:19 43:7 52:4 52:7 53:4 116:8,11,21 117:4,11,15,18 119:5,7 heard [4] 35:3 63:12 98:3 98:4 hearing [3] 44:5 57:6 97:5 held [3] 1:14 122:13 126:11 help [3] 71:19 80:13 81:9 helping [1] 14:9 helplessness [1] 100:12 helps [1] 68:24 hereby [1] 150:6 hereunto [1] 150:18 hey [1] 64:5 Hi [1] 3:19 high [6] 11:24 14:12 67:5 84:1 128:17 139:2 higher [2] 128:13 137:18 highlight [1] 35:6 highlighted [1] 133:15 Highway [2] 102:4 123:3 hiking [1] 102:1 hill [3] 146:11,14,24 hillside [1] 123:12 historic [1] 144:22 historical [3] 2:8 4:25 141:2 history [4] 94:12 112:24 113:2,3 hit [2] 11:11 52:9 hits [1] 128:17 hold [2] 45:12 82:15 holiday [1] 114:3 honest [2] 16:20 60:11 hope [2] 36:11 97:15 hopefully [4] 31:14 60:1 60:3,10 hot [4] 92:3,13,14 135:21 hour [6] 27:10 51:1 148:17,17,17 149:1</p>	<p>hours [7] 51:10 54:11,13 58:3,6 81:21 97:13 Howell [1] 2:24 huge [1] 148:1 human [18] 26:22 45:20 46:21,25 50:24 51:13 89:20 90:7 125:3,7,12 125:25 126:3 135:19,23 139:3,20,24 Hunter [6] 2:7 5:3,3,6,8 148:25 hydrogeological [1] 106:21 hydrological [1] 146:9 hydrology [3] 120:1 146:7 149:10</p> <hr/> <p style="text-align: center;">-I-</p> <hr/> <p>IA20 [1] 28:16 IA24 [2] 130:25 131:1 IA25 [1] 28:22 idea [6] 54:7 57:21 83:10 98:8 123:1 127:19 ideally [1] 34:12 identified [3] 30:13 79:23 146:10 identify [1] 30:10 ignorance [1] 140:7 illegal [1] 71:21 illustrate [1] 133:1 immediacy [1] 105:1 immediate [1] 146:7 immediately [2] 25:24 93:15 impact [1] 93:16 impacted [1] 138:11 impacts [2] 131:9 139:25 impaired [1] 109:6 impairing [1] 106:12 impart [1] 38:3 impermeable [1] 107:11 implement [1] 110:10 implementation [1] 110:5 implemented [8] 109:16 109:19,21 110:16,21 111:1,5 113:5 implications [1] 67:20 imply [1] 125:25 importance [1] 92:25 important [11] 10:9 29:19 55:11 63:2,16 82:22 99:9 115:16 116:1 117:8 119:4 impression [1] 86:11 improved [1] 119:24 improvements [1] 31:6 improving [1] 62:11 inadequate [1] 86:15 inappropriate [1] 22:12 inaudible [2] 109:2</p>	<p>147:21 include [2] 61:21 66:16 included [6] 22:3 75:9 77:12 118:19 123:22 145:17 includes [3] 30:23,25 60:1 including [4] 57:12 87:3 94:7 125:9 incorporate [1] 134:8 incorporated [3] 20:9 36:22,23 increased [1] 67:19 incurred [1] 42:20 independent [2] 62:1 79:24 index [4] 135:25 137:9 137:20,25 indicate [2] 8:16 33:8 indicated [2] 33:3 45:6 indicating [4] 123:2,4 123:11 129:4 individual [4] 14:25 72:14,20 76:13 individuals [7] 16:15 60:8 72:21 73:19 74:2,2 76:13 industrial [9] 109:21,22 110:1 112:8,12,17,24,25 113:6 ineligible [3] 68:1 80:17 80:19 infiltration [1] 90:18 information [21] 5:12 27:5 29:2 30:23 38:22 47:2,24 60:17 68:22 69:20 73:10 75:7 76:7 81:4 84:18,22 87:20 94:4 116:5 120:13 122:21 ingest [1] 139:14 inherent [1] 42:25 initial [2] 122:3 126:4 initiate [1] 29:25 initiated [4] 29:4 30:17 31:4,11 inland [9] 27:22 35:16 52:19 53:13 54:14 57:12 109:16,23 121:25 innovative [1] 78:2 inorganic [2] 132:17 135:7 inorganics [2] 28:13,22 input [1] 72:19 install [2] 142:10 144:11 installation [12] 23:19 23:21 24:7 62:20 64:22 65:22 66:2 69:6,7 72:6 75:12,14 installed [6] 82:13 106:3 140:12 142:15,15,25 instance [9] 27:8 40:21 60:12 63:23 76:2 78:5 99:6 135:13 138:14</p>	<p>instead [2] 7:7 145:13 instituted [1] 94:13 instrumentation [1] 126:11 intellectual [1] 100:1 intended [1] 38:18 intention [2] 14:8 31:25 interaction [1] 12:20 interest [8] 23:14 65:13 92:21 95:10 100:22 117:3 117:7 121:18 interested [3] 100:8,9 150:14 interesting [1] 116:11 internal [1] 29:3 Interpretation [1] 66:19 interpreting [2] 39:10 62:2 interval [1] 136:11 introduce [2] 3:11 5:9 investigate [1] 15:12 investigated [2] 132:3 145:19 investigation [23] 29:13 30:1 101:6 106:8 117:12 122:1,5,6 124:4,6,9,10 124:11,14 131:12,17,19 131:20 132:1 133:7,16 145:14,21 investigations [2] 23:24 48:18 investigative [2] 24:3 25:4 invitation [1] 44:14 invited [1] 45:3 involve [1] 102:1 involved [3] 24:21 48:21 146:2 involvement [2] 38:5 146:3 IR [4] 27:17 28:9 54:14 57:12 irrelevant [1] 140:16 irrigate [2] 148:8,19 island [18] 10:12 44:22 46:9,23 47:11 48:13,23 48:25 49:3,5,8 51:23 52:1,11 59:10 64:12 80:12,13 isolation [1] 105:1 issue [7] 32:15 91:21,23 100:2,13 101:2,13 issued [5] 32:9,12,25 34:16,19 issues [6] 8:22 49:1 62:2 74:6 79:8 111:16 issuing [1] 36:6 item [19] 6:1,17,18 7:7 11:14 12:3,12,13,16 20:13 21:7 23:5 45:17 52:18 58:12 60:24 64:4 107:19 122:19</p>	<p>items [5] 8:12,17 46:11 53:21 62:23 itself [4] 12:4 67:1 86:13 106:3 IX [2] 21:7,12</p> <hr/> <p style="text-align: center;">-J-</p> <hr/> <p>James [2] 2:19 3:15 January [10] 13:1,3,3,8 13:24 17:23,25 19:16 47:13 118:10 Jim [4] 2:22 3:25 55:10 56:10 Joanna [4] 2:5 4:5 14:6 20:6 job [2] 31:22 121:23 John [7] 2:4 4:3 34:5 101:1 114:17 118:5 121:9 joke [1] 81:14 judged [1] 126:25 July [1] 129:24 jump [2] 82:19 130:23 jurisdiction [1] 111:15 jury [1] 56:9</p> <hr/> <p style="text-align: center;">-K-</p> <hr/> <p>keep [8] 10:6,11 22:25 38:10 41:2 101:9 121:19 147:18 key [5] 64:15 72:4 73:12 74:13 107:11 kick [1] 78:17 kidding [2] 114:5,6 kill [2] 51:1 67:12 kilogram [1] 132:10 kind [48] 36:4 45:10 48:8 48:19 51:24 52:2,11,12 54:4 83:11,19 84:24 85:1 85:6 88:14,24 89:2,6,17 89:21,25 90:7 91:6,6,9 91:18 92:7 96:5,12,17 96:25 97:2 103:22 104:1 105:16 106:16 108:3 109:7 111:16 116:15 117:13 119:20 120:11 126:24 129:15 138:19,25 149:7 kinds [6] 65:11 90:3,23 99:4 102:16,23 knowledge [6] 62:12 66:10 73:4 74:4 85:21 92:2 known [8] 25:2 28:10,16 29:6 75:19 92:4 127:13 134:18 knows [5] 3:10 33:1 60:15 73:3 102:15</p> <hr/> <p style="text-align: center;">-L-</p> <hr/> <p>L [3] 1:21 150:4,22 lab [1] 102:22 labeled [1] 123:6</p>
---	--	--	---	--

laboratory [1] 34:19	91:19,21 108:22 118:16	look [34] 23:10 25:17	5:25 17:7 18:15 41:22	12:21 13:1 14:9,10 21:11
lack [1] 11:2	legally [1] 67:11	26:9 34:11 35:4 58:17	43:9 48:11 50:22 93:6	22:3 24:24,25 25:16
ladies [1] 3:3	legitimate [1] 149:13	65:3,9,15 76:17 79:13	96:1 148:24 149:6,9	26:16,17 38:24 43:22
land [11] 21:14,15 28:19	less [6] 63:5 78:15 134:16	79:24 82:9,18 84:14,18	marsh [7] 51:25 83:9	44:4,11,21 45:7,10,14
85:22 86:3 91:14 100:8	137:9,20,25	89:10 91:4 94:18 95:5	84:11 88:19 103:6,10	47:13 49:8 50:15 60:3
101:10 105:1 147:5,7	letter [29] 20:23 21:1	95:13,16 96:1,18 98:6	147:7	92:23 105:7 114:19,20
landfill [55] 21:6 28:9	32:25 33:3,9,22 34:16	103:20 107:8 119:1	marshy [1] 103:14	114:22 115:1,21 122:13
35:9 54:11 81:18,23 82:3	34:20,25 35:5,25 36:3,6	131:17,22 139:9,10	Mary [3] 2:14 4:10 54:18	meetings [8] 7:24 13:15
82:13,22 83:2,8,12,16	36:11 82:5 83:24 85:5	146:12 149:11	mass [3] 105:1,2 106:3	13:25 14:8 17:25 24:14
83:22 84:9 85:10 87:4	105:15 107:22 108:4,8	looked [8] 28:15,21 91:4	match [1] 144:12	24:14 27:9
87:25 88:2,9,15 89:1,3,4	108:23 109:10 118:9,18	94:14 97:24 112:19	material [6] 21:19 47:12	meets [1] 80:8
89:13 90:5,15,24 91:25	119:13,16,19 121:5	140:15 148:20	92:19 98:20 112:15	Meillier [27] 2:9 55:24
92:11,15 93:20 95:12,17	letters [3] 32:9 82:1	looking [15] 7:21 28:13	126:15	56:6,8 81:12 85:13,14
98:7 101:3,4,7,8,11	level [8] 66:11 73:15	28:18 41:13 65:17 74:22	materials [6] 67:7 92:9	104:4,5,6 106:18 107:8
102:4,9 103:5 104:9,16	75:21 100:1 125:14	94:4,6,12 96:7,8 98:9,10	101:4,7 102:11 127:25	107:14,17,21 108:1
104:19,21,25 105:7,17	126:24 131:22 138:13	102:10 128:15	math [1] 63:6	110:20 111:20,23 112:2
106:24,25 108:7 116:17	levels [4] 131:23 134:16	lost [1] 25:19	matter [5] 10:9 16:20	112:9 113:1 114:1,6,14
landfills [6] 91:7,23 92:2	137:18 138:18	lots [1] 97:6	129:9,10,19	119:12 149:9
92:6 102:2,5	liability [2] 143:24 144:2	Lou [2] 4:10 54:18	mature [1] 51:15	member [6] 9:8 44:15
large [5] 30:22 83:16	liaison [1] 80:11	Louise [1] 2:14	maximize [1] 8:24	44:16 47:23 72:19 100:12
87:12 102:8 136:6	lie [1] 25:24	low [2] 87:17 126:23	maximized [1] 63:8	members [31] 3:9,12 6:9
larger [4] 40:7 92:5	lies [2] 71:5 146:19	low-flow [1] 129:20	maximum [12] 63:3	6:14,20 9:5 21:2 34:12
121:23 123:5	lifetime [1] 63:5	lower [3] 127:20 130:19	110:20 124:21 125:20,24	35:10,19 43:25 45:5,10
last [15] 5:15 30:16 39:25	lighter [1] 102:14	130:20	126:1,18 127:6,17,23	45:16 46:2 47:3 50:14
44:3 47:22 67:22 68:13	likely [7] 54:6 65:19,25	lunch [1] 58:6	128:1 135:18	52:23 57:7,24 61:5 62:18
72:15 77:8 79:9 96:20	77:6 89:2 136:13 147:13		may [39] 8:9 9:5 15:8	78:25 80:4 81:16,25
112:4 113:3 132:19	limit [4] 8:18 9:10,14		28:24 32:18 45:1 51:9	82:23 113:18 116:7
144:20	11:11		51:15,18,23 52:2,5,15	118:10 149:5
Lastly [1] 106:2	limited [6] 63:3,13 89:13	machine [1] 21:10	69:25 70:23 75:15,15,17	memo [1] 36:10
late [2] 113:15 123:17	90:6,8,25	machinery [1] 131:7	79:8 84:17 88:12,24 89:3	mentioned [4] 34:18
latter [1] 53:13	limiting [1] 74:20	magnitude [1] 98:9	95:7 101:4,9 102:1 113:2	77:20 124:4 125:16
Laurent [9] 2:9 56:5	limits [2] 63:2 95:14	main [3] 17:21 118:8,12	121:14 122:14 125:1	mentioning [1] 120:14
81:12 85:12,13 97:16	line [9] 25:25 64:4 77:8	maintaining [1] 131:13	133:15 135:14 136:18	mess [3] 100:15 101:3
104:5 112:23 113:23	100:24 116:3 122:19	maintenance [3] 43:1	137:14 142:21,21 144:5	131:6
law [5] 25:13 61:12 62:17	131:3,10 143:11	118:7 130:25	145:5	messes [1] 41:5
104:22 108:21	lines [1] 10:21	major [7] 27:20 29:6	McLeod [57] 2:8 4:24	met [1] 43:11
lawns [1] 148:19	linkage [1] 111:2	37:12,17 38:4 119:2	4:24 6:6,6 7:1 13:8 18:3	metal [1] 142:5
lawyers [1] 26:5	linked [1] 58:24	121:4	18:7,11,19 21:17,22	metals [14] 92:14 124:24
lay [1] 73:11	list [7] 76:13 78:9 104:19	majority [2] 72:11 78:21	22:21 39:5,17 40:2,14	127:2,4,4,5,9,25 128:18
layer [1] 107:11	127:4,14 132:23,24	maker [4] 11:15 16:13	41:21 46:16 47:4,25 48:9	129:15,16 132:19,20,22
layers [1] 106:1	listed [2] 132:22 133:3	22:13 53:19	49:23 50:5,8 55:18 85:15	meth [1] 102:22
layperson's [1] 66:7	listener [1] 15:7	makes [3] 70:9 100:20	85:17 87:9 90:9 91:11	methane [1] 90:22
Lea [2] 2:21 3:19	litigation [4] 25:1,2 26:3	130:12	93:2 98:18 99:22,25	method [1] 137:2
leachate [5] 87:3 96:17	68:3	management [4] 23:23	101:10,16,18 102:18	methodology [1] 137:10
105:22 106:4 107:4	live [1] 123:19	33:19 43:2 133:6	106:15 107:6,13 117:3	might [12] 12:14 17:16
leachates [5] 104:15,16	living [1] 71:13	manager [4] 4:14 41:25	117:15,18,24 140:6,13	51:11,16 55:13 80:3
105:5,14 106:8	Load [1] 110:20	55:10 110:13	140:20 141:1,7,14 142:6	104:23 116:11 129:14,18
lead [7] 108:17 128:10	loaded [2] 8:10,13	Manager's [1] 23:12	143:8,19 144:22	142:2,9
128:20 131:10 133:3,13	loading [2] 31:13 112:15	managers [2] 26:16	mean [17] 10:10 18:17	military [6] 33:15 83:15
138:14	loads [1] 88:11	38:10	40:3 87:24 94:5 95:4,25	90:14 96:5 103:12 120:7
lead [1] 138:15	local [1] 64:20	manganese [7] 129:3,3	95:25 97:9 100:20 107:9	millennium [1] 72:15
leads [2] 139:22,25	located [4] 92:20 123:2	129:18 130:6 133:8,11	108:20 116:18 117:6	milligrams [1] 132:10
learning [1] 60:21	141:4 145:1	133:15	135:11 141:17,18	million [6] 98:4,4,14,14
least [17] 14:17 15:11	location [2] 120:3 128:16	manner [1] 74:5	meaning [7] 29:24 31:5	98:15 136:9
30:6 43:21 50:9 52:8,12	locations [5] 124:5,11	map [4] 83:4,5 92:4	63:6 64:4 65:10 68:5	millions [1] 74:18
56:20 57:7 67:22 68:13	131:11,20 132:3	123:12	76:4	mind [3] 41:2,5 121:19
76:14 79:22 113:25 119:8	lock [1] 33:17	mapped [1] 120:21	meaningful [1] 8:6	mine [1] 41:6
121:16 144:18	logic [1] 115:24	maps [3] 120:2,16 147:20	means [4] 10:23 51:21	minor [2] 64:8 87:7
leave [5] 10:16 23:14	Loizos [3] 2:21 3:19,19	March [19] 1:24 3:1	105:22 119:21	136:17,18,22 138:22
42:14 43:1 51:12	long-term [2] 29:7 89:12	44:22 45:23 47:6,17 50:4	measure [1] 126:11	minute [5] 7:23 49:14
led [2] 122:5 128:14	longer [1] 88:18	50:15 53:2,7 54:19,24	measures [1] 123:18	132:15,18 133:9
Lee [3] 45:4,10 48:7		57:6,11,20 114:20 115:2	meet [4] 35:18 105:9,12	minutes [31] 12:25 13:3
left [2] 127:16,23		122:11 150:19	107:11	13:11 17:11,17,22,24
legal [7] 33:7 61:16 68:3		Marcus [14] 2:2 4:18	meeting [44] 1:2 3:5 4:7	
			5:14 6:10,13,16 7:14	
			8:13,23,25 10:13 12:15	

51:1 61:2 75:2 113:11 115:9 148:13 misconception [1] 19:2 miss [2] 44:13 64:17 missile [1] 28:11 missing [2] 33:17 59:24 mistakes [1] 71:23 mitigation [1] 91:13 mixed [2] 92:12,15 mixing [1] 36:4 mock [1] 21:5 mode [1] 122:17 modifications [2] 33:23 34:1 modified [1] 43:14 Monday [1] 1:24 money [25] 15:14 29:21 29:24,24 39:14,18 40:1 40:6,8,12,12,23,25 41:1 41:17 42:1,13,14,18,23 63:24,24 64:6 65:17 78:13 monitor [4] 90:16,18 92:20 142:11 monitored [1] 104:21 monitoring [11] 84:3 87:14 91:10 106:5 140:12 142:14,24 143:3,12 144:7 145:3 month [20] 5:15 17:11 17:18 24:13,24 26:15 29:3 30:16 31:13,16,24 32:8 34:17 35:7 36:2 53:1 54:20,25 80:9 122:11 morning [1] 148:9 most [14] 7:24 47:10 60:11 71:5,16 73:1 77:3 102:12,18 122:16 124:19 126:2 128:4 136:13 mostly [2] 6:13 124:19 motion [32] 9:19 11:4,16 11:16,18 13:22 14:3 16:13,14,25 17:6 18:3 19:16 22:9,14,14,20 50:8 50:19 53:4,6,16,18,19 55:6 57:5,19 99:11,12 99:15 102:25 113:18 motions [1] 9:22 motor [5] 124:17 126:20 132:6 133:19,19 move [14] 10:20 11:14 13:23 19:18 22:10 25:3 29:17,24 49:24 71:4,24 97:7 106:25 129:11 moved [3] 29:21 50:13 57:10 moving [3] 24:1 68:17 132:17 Ms [62] 3:21 4:1,5,10,22 5:3,5,8 7:12,19 9:2,21 10:3,19 11:1,17 13:13 13:23 14:4,7,15 15:3,19 16:11,19 17:1,7,17,19 18:15,21 19:18,20 20:7	25:20 38:18,25 46:5,8 46:13 47:19 49:12,20 50:6 53:9,11 54:19 55:1 55:9 56:12,21 57:9 77:20 78:8 80:8 92:21 93:3 113:22 114:9 115:11,20 148:25 Mt [1] 146:14 mud [2] 103:15 107:7 munitions [4] 36:4 92:8 96:5 123:15 murdering [1] 20:17 must [8] 29:22 30:2 37:25 38:1,3 39:25 40:25 62:21 -N- N45 [2] 59:5,6 name [17] 3:7,9,14 4:8 4:15 5:19,19 14:21 15:3 20:17 60:7 72:6 80:15 85:13 104:5 111:23 112:4 named [1] 150:14 names [2] 3:10 78:3 napalm [3] 126:9,10,16 National [1] 110:23 native [1] 104:16 natural [3] 21:19 91:16 91:17 naturally [3] 127:9 129:11 132:22 nature [9] 24:5 62:3 66:10 71:10,11 72:16 73:7 102:5 138:9 naval [14] 1:3 3:23 23:20 25:25 29:14 30:5 43:15 59:4,15 63:17 69:10 76:22 109:17 124:2 Navals [1] 59:22 Navy [110] 2:3,12,17 3:7 4:13,17 7:4 12:8 16:1 21:10 22:15 23:12 25:8 25:9 26:13 27:23 29:4,8 29:19 30:17,18,19 31:3 31:16,24 32:2,21 33:11 33:22 34:2,7,11,20,23 35:14,16 36:2 37:14 41:3 42:1 45:19 46:24 52:7 53:25 54:2 58:19,23 59:1 59:2,23 63:12 70:8,9,12 70:22 75:17,19,23,23 76:2,25 77:9,11,11 78:6 80:11 82:10,14,24 83:3 84:5,14,20,22 85:2 86:4 88:5,23 90:10 91:11,22 95:10 97:25 98:4 100:6 101:20 108:9,15,20 109:9 110:7 112:11 116:4 117:8 118:13,15 119:6,16,22 120:8,19 121:24 128:12 131:24 138:23 143:23 144:10,17,19,24 navy's [4] 24:16 58:13 82:6 100:21 NCP [1] 48:15 necessarily [5] 121:2 125:24 135:11 144:7,14	necessary [1] 64:23 need [25] 5:11 9:24 26:9 26:11 33:24 39:18 40:9 41:23 43:17,18 44:3 48:1 48:5 62:21 68:17 84:2 84:15 90:23 96:17 99:7 104:20 116:1 121:2 127:7 137:14 needed [3] 9:10 84:25 116:6 needs [16] 62:25 72:1 79:9 105:5,17,20 108:20 110:6,7 114:15,16 118:22 119:24 120:5,25 148:25 negative [1] 106:22 network [2] 87:14,21 never [5] 58:21 63:12 77:2 97:24 102:20 new [11] 5:9 7:7,16 21:9 29:22 30:13 68:5 83:3 87:8,20 107:20 next [17] 6:1 11:14 12:3 12:21 21:13 23:5 41:18 43:21 52:18 53:1 58:12 60:3,24 107:19 114:2 124:9 128:9 nice [5] 38:9,12 54:12 83:4 119:7 nickel [2] 102:9 133:3 night [2] 47:5 80:9 nine [3] 37:4,7,8 nitrate [3] 130:10,17,18 nitrite [3] 130:10,17,17 no-action [1] 82:14 no-further-action [1] 136:25 NOAH [1] 24:9 non-RAB [1] 6:8 noncarcinogenic [1] 137:22 none [2] 94:16 124:23 nonetheless [1] 95:7 nonhazardous [1] 102:6 nonphysical [1] 107:2 nonskilled [1] 86:14 noontime [1] 35:19 norm [1] 30:19 normal [1] 5:17 normalized [1] 30:21 normally [2] 140:22 141:23 north [2] 72:15 146:20 note [3] 14:7 21:5 47:20 noted [1] 17:23 notes [1] 38:11 nothing [9] 42:24 52:14 67:6 82:17 87:5 91:9 96:24 126:23 136:21 now [57] 5:24 9:15 31:18 33:13 36:24 41:2,4,6,18 42:4 43:7 44:6,10 59:11 61:1 62:5 63:10 67:14 68:16,21 69:14 70:2 71:3	72:4 75:13 76:11 77:1 77:20 78:19 83:24 84:21 86:25 87:9 88:8,14,20 89:11,12 93:19 95:22 96:10 100:11 101:11,12 104:4 116:15 122:18 124:16 125:13 135:1 136:10 139:3 145:23 146:15,16 147:20 148:3 NPDES [3] 110:22,22 111:2 nuances [1] 67:14 number [25] 16:3,10 46:20 60:10 65:23 81:4 82:12 91:5 94:14,20 95:14 112:1 122:23 127:16,18 128:5 129:23 129:25 130:10 136:1 137:25 138:6,24 142:15 150:24 numbers [14] 60:6 126:23 128:14,14,24 130:14,18 134:2,3,20 135:3,3,22 138:20 -O- O'Brien [28] 2:10 4:15 11:9 12:16 22:1,5,10,18 43:12 49:10 56:25 57:21 58:2 99:6,12 103:4,8 104:2 111:22,25 112:5 112:23 114:15 115:1,15 115:23 116:13,19 O'Connell [98] 2:2 4:18 4:18 5:25 6:1,11 7:17 9:13,23 10:23 11:2,15 11:18,21,23 12:2,9,12 12:23 13:6,9,21 14:2,5 15:18 16:12,24 17:2,4 17:21 18:6,9,13 19:4,19 19:21,23,25 20:4,11,15 20:23 21:1,20,24 22:4,7 22:13,19,22,24 36:16 37:1,6 38:7,23 39:3 41:23 42:4,8 43:5,10 48:12 50:12,23 51:6 53:6 53:18 54:21 55:5,19,22 56:1,4,7,10 57:2 58:1 78:12,16,20 79:11 93:7 93:21 94:10 97:19 99:10 99:14 112:6 114:21 115:3 116:20 145:6,25 146:5 146:18,21 147:16 Oakland [1] 104:7 objective [1] 64:23 obligated [1] 25:13 obtain [1] 70:22 obtained [1] 64:24 obtaining [1] 66:13 obviously [2] 63:6 141:18 occupancy [2] 125:9 136:4 occupy [1] 125:15 occurring [2] 127:9 132:23 October [2] 41:19	122:16 off [17] 8:6 9:11 16:4 34:14 47:19 78:3 79:1 82:15,18 87:5,25 88:10 88:19 113:9 131:7 149:1 149:3 off-gassing [1] 90:21 offerings [1] 50:21 office [2] 39:20 80:13 officer [8] 59:12,14,20 69:9,10 70:13,22 76:20 offices [1] 60:9 official [2] 79:5 103:18 often [2] 99:1 126:4 oil [5] 124:17 126:20 132:6 133:19,20 old [5] 7:16 28:11 58:7 81:11 134:14 Olson [3] 59:8,8,12 once [17] 14:16 18:5,8 39:7 51:14 67:8 69:2,4 70:1,6 71:25 75:4 79:22 87:19 89:20 91:7 127:1 one [91] 8:17 9:9 12:5 13:13 14:24 17:5,6,7 18:15 21:17 24:23,23 28:6,18 29:6 31:1 32:9 33:15 36:18 37:13,15 47:5,16 51:2,4 53:1,22 57:7 58:25 59:13,18,18 59:24,25 60:1 63:16 64:15 66:12 67:16 72:13 72:18 74:13 76:2,12 77:13 80:4 82:20 86:8 86:24 87:12,23 88:3 92:19 94:23 95:6,15 96:14 97:19 101:25 102:2 104:14,24 106:19,20 109:2,13 113:18 121:24 125:18 127:7,10,19 128:5 128:6,7,9,20 129:4,4 130:9,19,20 132:8,15 134:7 135:24 142:12,15 145:18 146:6 149:9 one-month [1] 85:6 onerous [2] 14:13 31:10 ones [3] 123:9 134:9,14 ongoing [1] 109:22 online [2] 111:7,10 onward [1] 147:3 oOo [2] 1:25 2:25 oops [1] 132:14 open [5] 11:6,12 19:1 113:21 132:13 operate [2] 27:22 37:22 operating [1] 89:8 operation [1] 27:24 Operations [1] 59:4 opportunities [1] 6:21 opportunity [5] 6:23 19:11,12 35:18 51:11 opposed [7] 16:19,23 17:4,6 19:23 57:17 99:19 optional [2] 73:20,21
--	---	---	---	---

order [12] 6:18 18:21 60:2 70:2 71:9 98:8 104:21 105:14 117:19 120:16 132:16 133:4	paragraph [1] 20:14 parallels [1] 139:19 paraphrasing [1] 62:7 pardon [2] 41:9 138:3 park [2] 89:24 102:5 part [17] 12:8,10 23:7 38:8 45:23 62:17 65:18 68:24 71:5,12,25 77:3 95:10 121:23 124:19 128:4 131:12 participate [4] 9:6 27:6 44:15 62:10 participation [3] 44:2 61:25 66:22 particles [4] 88:12,13 88:19 129:16 particular [31] 14:23 16:16 23:18,25 24:24 25:5,15 26:1,6,8,17,19 27:11,16 28:14,16 39:10 39:14 43:4 58:5 60:8,18 61:22,23 62:23 66:4 67:13 70:11 72:18 136:10 137:7 particularly [3] 103:16 128:25 143:9 particulate [3] 129:9,10 129:19 parties [9] 15:2 25:22,23 26:8 32:13 33:4 36:19 36:21 70:20 Pass [1] 123:3 Passed [1] 19:25 passes [1] 23:2 past [3] 39:13 119:1 138:16 Pat [4] 10:2 17:9 56:10 97:8 patience [1] 61:3 Patricia [2] 2:23 4:1 pattern [2] 134:23 139:8 paved [1] 131:2 PDF [1] 32:23 people [44] 6:14 9:12,15 10:16 13:2 14:10 16:22 18:1,16,25 19:5 22:24 43:1 46:16,20 47:10 49:4 55:16 66:8 68:21 69:22 70:17 74:21 76:5 77:23 79:1,7 81:22 83:3,16 89:24 90:22,25 96:2 98:2 98:25 99:1,4 102:12,18 111:12 143:15 148:7,16 per [4] 15:23 67:10 111:1 132:10 percent [3] 63:4 78:14 78:17 percentile [2] 127:17,19 percolating [1] 142:23 perforate [1] 91:25 perform [1] 70:12 performed [1] 121:24 perhaps [13] 3:11 8:21 10:20,21 11:10 12:14	45:12 47:7 50:23 67:11 90:13 92:22 113:17 period [2] 32:1 125:16 permeability [1] 107:12 permit [1] 110:22 permits [3] 110:22,25 111:2 person [13] 6:13 45:3 60:9,15 69:17 71:15 72:18 77:13 85:19 86:14 110:12 111:22 150:10 personal [2] 71:19 138:12 personally [4] 57:3 77:22 112:6 115:4 personnel [1] 77:21 persons [3] 2:1,16 73:11 pesticide [1] 67:11 pesticides [2] 28:20 138:16 petition [2] 107:23 108:4 petroleum [2] 109:2,6 ph [4] 45:18 59:22 68:25 107:3 Ph.D [1] 75:21 Phil [3] 31:20 36:14 52:17 Phillip [8] 2:11 4:20 81:12 92:21 103:4 115:17 130:24 146:6 phone [1] 111:25 photoflash [1] 123:23 photographs [1] 144:24 phrase [1] 20:20 phthalate [3] 133:18,24 135:13 physical [3] 66:5 106:19 107:4 physically [1] 84:10 pick [3] 12:14 53:4 56:18 picked [1] 126:10 pickleweed [1] 103:20 picture [1] 124:7 piece [4] 33:17 59:18,24 116:10 pieces [1] 126:10 pigment [1] 28:5 Pinard [1] 68:23 Pinasco [1] 55:11 pipe [6] 93:9,12,13,17,23 102:21 pit [3] 131:15,17,21 place [16] 24:2 25:11,12 27:25 33:12 38:21 59:9 70:15 73:16 76:1 77:2 88:17 100:3 128:18 143:3 150:8 placed [5] 11:3 21:6 51:10 143:5,12 places [1] 124:18 plan [11] 33:19 36:7 41:10 110:14 111:3,4,5	111:8 113:5 122:9,14 plant [11] 109:14,14,15 109:18,20 110:3,6,10 111:23 112:22 113:8 plants [1] 67:12 plate [1] 5:19 plates [2] 3:9 4:9 plume [1] 109:2 plus [3] 57:7 64:7 138:21 point [25] 2:10,13,19 3:15 4:22 43:17 47:25 52:6 77:11 81:3 82:22 84:23 94:6,17,18 96:23 100:8,21 101:5 108:1 118:8,12 147:10 148:16 148:22 points [3] 60:5 66:12 84:1 political [1] 68:2 Pollutant [1] 110:23 polluted [1] 109:1 pollution [2] 100:10 143:4 Pontemayor [79] 2:3 3:3,7,16 4:8,16,16 5:4 5:23 7:2,4 8:8 12:19 23:4 31:17 36:14 39:4 41:22 43:6 44:9 46:4,7,10,15 46:19 47:16 48:6,11 49:7 49:15 50:4,11,13,19 52:17 53:8,10,15 54:18 54:23 55:2 57:10,17,19 57:23 58:4,11 60:23 77:10 78:11 81:3 85:11 85:16 93:6 99:15,19,21 99:24 101:1 104:3 107:16 107:19,24 111:19 113:10 113:14 114:5,12 115:8 117:1,17,20 118:1 119:11 121:7,12 148:24 149:4 149:15 population [1] 136:6 portion [1] 44:11 portions [1] 123:17 pose [2] 46:1 113:15 posed [1] 62:13 position [10] 76:15,18 82:25 85:1 104:8 105:4 106:7 116:12 119:14 121:5 position-wise [1] 143:1 positions [1] 106:13 possibility [2] 20:16 106:16 possible [11] 8:21 20:18 45:11 47:4,16 53:24 55:12 56:16 102:13 114:9 131:15 possibly [2] 8:20 41:6 postpone [4] 12:20 19:9 114:24,25 postponed [1] 8:12 pot [5] 40:7,8,10 41:9 42:1 potential [7] 28:18 30:13	75:11 89:2 101:14 105:12 148:4 potentially [8] 25:20,21 25:23 52:9 88:19 95:11 105:6 143:25 practicing [1] 124:3 PRC [2] 36:22,22 PRDs [1] 28:6 precise [1] 108:25 preclude [1] 27:25 precluded [1] 95:1 prefer [3] 44:19 82:15 143:11 preference [1] 45:9 preferences [1] 46:2 preferred [2] 74:1 76:10 prefers [1] 45:22 preliminary [11] 34:3,7 34:20 36:1,9 67:9 125:5 125:6,19 130:3 132:9 prematurely [1] 51:7 preparation [5] 28:3 68:18 69:1 72:1 77:14 prepare [6] 24:20 25:14 55:16 59:25 70:3 71:6 prepared [6] 24:19 34:23 41:3 69:5 122:10 134:2 presence [1] 90:25 present [11] 2:1,16 31:1 34:3 46:20,25 47:1 60:2 111:18 118:5 121:9 presentation [36] 6:19 6:20 7:8,9 9:7 23:16 48:5 49:13,18 54:4 60:25 61:4 63:1 69:24 77:17 113:19 113:21 114:10,11,17 115:8,14,16 116:15,22 117:2,19,22,22 118:1,25 120:1,5,19 122:22 135:17 presentations [4] 8:1 10:24 45:11 118:24 presented [8] 47:12 105:15 110:15 112:20 117:10 119:19 120:13 140:4 presenter [1] 6:22 presenting [4] 46:17,17 46:22 104:8 presents [1] 119:13 Presidio [1] 43:13 Presidio's [1] 43:14 Presumably [1] 131:3 presume [1] 141:12 presumed [1] 89:12 presuming [1] 79:6 presumptive [14] 86:17 91:3 92:1 94:11,13,19 94:21,25 95:2,7,13,18 96:3 97:21 pretty [19] 9:20 11:24 16:7 32:5 36:12 54:15 61:6 62:15 72:9,23 73:2
--	---	--	---	---

-P-

p.m [6] 3:1 58:10,10
113:13,13 149:17
package [1] 58:17
packages [1] 23:10
packed [1] 114:23
packets [1] 123:5
page [9] 20:13,22 21:4
23:11 58:18 59:1,6,17
127:8
pages [1] 58:18
paint [1] 102:13
paper [2] 21:9 73:23
paperwork [2] 75:5,6

74:7 80:10 83:25 107:9 114:23 137:20 141:25 146:7	promulgated [1] 61:19 properly [2] 142:1,9 property [2] 26:13 144:20	pyrene [7] 124:18 132:7 132:10 138:2,5,18 139:1	rainfall [1] 72:14 rains [1] 88:10 raise [2] 11:23 57:14 raised [6] 11:22 12:1 17:5 57:18 91:21 99:20	rechannelized [1] 146:23
prevent [3] 97:3 106:11 107:4	proposal [4] 34:3,11 82:7 101:8	-Q-	Ramsey [35] 2:11 4:20 4:20 7:5 13:5 31:18,21 39:1 51:3,22 53:20 54:2 55:23 56:17 81:12,13,14 86:22 90:15 91:15 93:18 93:23 95:4 97:25 98:24 103:8 115:25 116:17 117:6 118:3 133:10 138:4 143:14,21 146:6	recognize [2] 48:24 96:10
prevented [1] 105:13	proposals [1] 70:6	qualifications [3] 73:1 73:21 74:15	ran [1] 32:5	recognized [1] 106:4
previous [5] 13:15,16 29:21 30:3 74:1	propose [4] 7:15 45:16 55:18 114:18	qualifies [1] 112:16	range [4] 136:17,22 138:1,6	recognizes [1] 14:22
previously [3] 26:11 142:20 145:17	proposed [13] 7:13 8:10 66:20 84:5,12 88:23 114:22 118:14 119:9 122:9,14 136:24 145:16	qualify [1] 65:3	rarely [1] 75:13	recollection [1] 146:3
PRG [11] 125:14 126:2 126:24 127:24 130:2,12 130:19 134:1,3,12,15	proposing [4] 53:11,14 82:14 87:2	quality [13] 14:12 24:11 28:17 104:6,10 105:8,10 108:4,24 110:1,8 111:6 139:25	rather [8] 26:18,19 44:15 48:25 61:14,21 63:19 79:2	recommend [2] 77:23 103:2
PRGs [7] 127:24 128:4 128:22 130:11 132:21 133:2 135:5	protect [2] 86:1 90:16 protected [1] 89:15	quantities [2] 132:24 135:24	Ray [2] 22:9 116:21	recommendation [2] 51:8 76:11
primarily [3] 24:15 74:13 118:24	Protection [2] 3:18 4:21	questioning [1] 98:3	Raymond [2] 2:10 43:12	recommendations [1] 27:2
primary [4] 47:7 65:7 68:5 76:12	protective [2] 86:24 90:7	questions [30] 5:21 6:21 9:7 42:16 46:1 51:16 52:6 75:25 77:19 78:12 81:2 85:15,18,24 93:1,1 93:3,7 94:20,23 96:23 97:11,12 106:14 107:15 109:13 111:20 121:8 140:4 145:6	reach [3] 72:21 79:7 105:14	recommended [3] 45:8 94:25 120:19
prime [2] 36:25 37:19	protocol [3] 5:6,11 11:2	quick [3] 43:10 68:15 118:4	reached [2] 8:19 29:8	recommends [1] 106:2
pristine [1] 98:11	proven [2] 74:23 105:5	quickly [5] 9:20 56:16 108:2 121:22 148:1	reaching [2] 106:11 107:5	record [17] 13:18 14:1 14:10 16:21 34:21 75:22 80:20 82:3,5 84:7,8 113:9 117:10 118:11,16 118:19 149:3
private [2] 25:24 79:23	provide [22] 7:9 17:17 23:8 27:4 45:4 47:2 49:18 60:7,16 61:23 62:1 65:14 68:20,22 74:24,24 74:25 75:15 76:6 77:15 78:8 149:11	quite [11] 13:16 24:21 25:1,7 31:10 37:24 54:11 62:7 75:22 95:6 125:21	read [8] 20:23 21:1,14 48:14 64:17 86:10 116:24 148:9	recorded [2] 14:8 21:7
problem [15] 8:16 18:15 38:15 47:17 69:13 71:24 87:15 96:17 115:3 125:25 130:21 135:11 142:12 148:3,4	provided [13] 26:20 32:13,21 33:4 34:25 36:1 49:21 71:2 76:3 82:1 84:21 92:2 109:8	quota [1] 38:2	reader [1] 15:8	records [3] 39:11,12 74:23
problems [2] 96:19 97:1	provider [3] 73:20 76:10 76:12	quote [1] 62:6	reading [2] 54:25 117:5	recreate [1] 128:23
procedure [3] 6:10 9:25 32:20	providers [2] 73:21 76:11	quotes [1] 62:7	readings [1] 87:17	recreation [1] 101:17
procedures [1] 89:18	provides [2] 34:25 61:24	-R-	ready [6] 43:20 44:6 69:2 74:9 106:14 114:12	recreational [9] 88:25 89:7,17,22,25 90:4 101:24 102:1 104:18
proceed [3] 87:19 88:4 88:16	providing [2] 33:9 73:1	R [3] 93:19,24 94:9	real [7] 35:21 67:7 89:13 97:1 118:4 130:6 135:18	redesigned [1] 105:11
proceedings [5] 1:11 3:1 149:17 150:7,9	PRPs [1] 25:18	RA [1] 103:21	realistic [1] 77:6	reduced [1] 135:22
process [23] 19:2 34:23 35:24 39:6 47:14 48:15 62:11 66:25 68:15 69:14 69:20 71:5,23 72:20 76:19 77:8 85:3 96:20 96:21 108:12 117:13 122:3 146:2	public [16] 6:8,12,17,23 7:24 10:24 28:3 32:9,13 44:2 45:3 61:25 65:13 77:13 122:10,13	RAB [111] 3:6,9 6:14,20 6:24 9:8 11:12 12:18,21 14:16 15:13,14,20,23 16:15 21:2 26:24 27:1,5 27:5,8 31:23 32:1,2 33:21 34:12 35:10,19 38:16 43:21 44:13,15,17 44:19,21 45:5,7,10,12 45:14,16,21 46:6,7,11 47:2,11,21,23 48:21 49:8 49:22 50:14,15,20 51:15 51:16,19 52:3,23 57:7 57:24 58:20 59:9 60:3,3 60:4,19,22 62:16,18,19 63:12,19 64:11,19 65:8 65:10,16 66:17,24 67:18 68:16 69:4 71:6 72:8,11 72:13,19,21 74:11 75:8 76:8,9 77:10,11,15 78:25 79:3 80:4,8 81:16,25 82:23 113:16 114:2 116:7 117:2 118:10 121:15	realize [1] 98:12	reduction [1] 98:11
processes [3] 26:25 70:5 76:1	public's [1] 62:9	RAB's [3] 20:24 21:2 43:13	really [29] 8:16,24 11:3 15:23 16:20 22:1 31:24 31:25 33:16 45:13 48:20 61:3 65:4 74:15 85:22 86:16,19 90:13 91:20 97:12 100:24 103:17 116:22 117:11 137:15 138:23 139:4,15 141:16	reenacted [1] 105:20
produce [2] 17:11 134:11	pump [4] 96:25 97:2 106:23 129:13	RABs [3] 10:4 64:3 73:24	reason [11] 8:23 10:10 40:6 67:13 78:22 88:3 115:12 129:7 136:10 145:11,12	reference [4] 61:21,22 110:12 127:8
production [3] 143:25 144:4,14	pumps [1] 147:25	radiation [1] 92:8	reasons [1] 104:13	references [1] 22:10
products [1] 109:6	pun [1] 41:9	radioactive [1] 92:9	receive [1] 24:18	reflect [1] 10:19
program [6] 23:20 24:7 25:4 64:4 79:22 121:3	punch [1] 116:3	railroad [2] 123:14,21	received [3] 19:10 93:25 118:10	regarding [10] 5:6 7:6 32:7 62:3 75:25 81:13 118:18,20 119:2 140:4
programs [1] 109:3	purchase [5] 69:14,20 70:2 71:9 74:12		receiving [1] 93:25	regardless [1] 95:17
progress [2] 30:15 102:25	purchased [1] 36:23		recent [2] 105:21 122:16	Regional [7] 24:11 104:6 104:10 108:24 109:25 110:7 111:6
project [19] 4:14 23:12 26:16 40:8 41:15 42:15 45:11 55:10 63:18 64:6 75:4,13 76:3 80:19 81:7 110:13 121:9 126:7 127:22	purging [1] 129:20		receptionist [1] 112:3	regions [1] 107:1
projects [13] 35:23 39:14 39:20 40:3,13 41:13 54:8 66:15 67:25 68:1 80:17 81:5 87:10	purpose [3] 18:19 88:25 123:16		receptors [3] 139:21,23 139:24	Register [5] 61:20 62:6 62:8 79:15 81:1
	purposes [2] 145:4,5		Recess [1] 113:13	regret [1] 44:12
	pursue [3] 61:13,13,14		recession [1] 41:8	regular [2] 45:14 49:8
	put [13] 6:12 9:18 10:6 21:9,11 73:23 88:17 97:16 100:4,4 113:18 135:23 145:8			regularly [2] 17:14 50:15
	puts [2] 76:17 138:6			Regulations [1] 69:17
	putting [3] 13:20 124:3 144:13			regulators [3] 57:8 84:13 131:24

81:19 87:8,16 release [1] 29:1 relevant [6] 140:16 141:15 143:9 145:1,2,4 rely [2] 69:8 71:14 remaining [1] 126:19 remains [1] 69:12 remedial [15] 23:12 26:16 38:10 98:25 121:25 122:6 124:10,11 126:24 131:19 132:1 138:7,8,25 145:14 remediate [1] 127:20 remediated [2] 26:14 94:16 remediation [7] 125:5 125:6,20 130:4 132:9 136:17,19 remedies [5] 91:3 94:12 94:13,19 96:4 remedy [21] 25:12,15 85:23 86:1,3,18 88:7 92:1 94:21,25 95:2,8,14 95:19 97:21 98:14,15 116:12 118:14 119:6,9 remember [2] 59:8 78:3 remembers [1] 62:19 remind [1] 5:10 reminded [1] 9:13 remnants [1] 126:9 remote [1] 113:7 removal [3] 120:22 126:16,19 remove [1] 126:16 removed [1] 126:15 removing [1] 127:1 reopening [3] 68:8 80:18 106:7 repair [1] 28:11 rephrase [1] 103:6 replace [1] 131:14 report [18] 9:7 23:7,8,13 23:18 24:3 25:14 30:1 30:24 31:15 32:1 56:14 70:25,25 71:2 75:10 94:1 145:13 reported [1] 150:9 reporter [10] 1:22 5:7,9 7:13 21:9 121:16 148:25 150:5,10,23 reporting [3] 29:13 75:8 122:24 reports [5] 8:1 23:6 73:18 75:9 145:13 repository [2] 29:2 38:22 represent [1] 104:6 representation [3] 119:25 142:17,18 representative [2] 70:14 135:21 represents [1] 127:14 request [14] 13:16 23:16	27:14 60:5 63:14 64:10 65:24 66:13 69:21 71:7 71:18 72:11,12 77:6 requested [3] 7:13 76:9 77:16 requesting [1] 72:7 requests [2] 76:7 77:3 require [1] 22:8 required [7] 41:4,10 75:1 79:17 84:25 136:18 136:19 requirements [7] 41:14 62:13 74:25 104:20 105:10,12 108:21 requisites [1] 72:25 resampled [2] 135:15 135:16 research [4] 76:5 141:2 141:13 143:2 researched [3] 141:6,8 141:11 reside [2] 60:8 129:16 resident [9] 2:2,10,13 2:14,19 3:15 4:23 85:20 136:3 residential [6] 125:8 127:24 132:9 136:3,20 148:5 residents [1] 62:19 resides [1] 69:10 residue [1] 126:17 resignation [1] 44:12 resolve [1] 88:21 resource [3] 80:7 91:16 91:17 resources [5] 50:1 65:9 76:4,6 77:21 response [13] 19:24 20:3 24:16,20 25:6 36:8 57:25 84:22,23,24 85:4 108:4 122:17 responses [4] 24:21 25:8 32:12 101:23 responsibilities [1] 26:25 responsible [4] 25:20 25:21,23 64:20 responsive [1] 32:15 rest [3] 53:12 71:8 72:23 restate [1] 39:22 restoration [13] 1:2 4:14 23:19,21 24:7 26:21 61:5 62:4 64:21 65:21 66:1,9 66:20 restore [3] 71:19 86:3 90:11 restored [2] 86:4 93:17 result [4] 128:4,11 129:18 131:9 results [6] 124:14 127:2 129:20 132:4,12 133:17 retrospect [1] 18:17 reuse [5] 89:6,12,21 90:8	91:1 reverse [1] 40:15 review [22] 6:2,3 12:18 13:19 19:11,12 24:15 25:6,10,11 26:4,5,10,20 28:4 36:11 52:22 66:20 69:24 72:2 74:24 122:10 reviewed [4] 69:5 104:12 109:5 120:16 reviewing [1] 36:8 revised [3] 20:25 82:2 118:11 revision [2] 7:6 41:20 revisited [1] 106:10 rewarding [1] 76:18 RI [6] 94:2 117:13 134:1 134:2,10 135:3 RIFS [1] 28:14 right [53] 7:10,23 9:14 12:7 15:4,5 22:18 36:24 37:8 39:10,15 40:5 41:3 41:18 55:1 57:15 60:2 71:17 76:15 78:16,19 81:14 83:9,9,24 84:21 86:13,25 88:1,8,9,14,20 91:24 92:7 95:22 96:1,3 96:10 101:9,22 116:12 116:19 119:7 121:13 127:19 128:2 135:3 143:6 146:25 147:3,12 149:8 rigorous [2] 71:5 130:14 rinsing [1] 131:6 risk [69] 26:22,23 28:2 44:20 46:18,21,25 47:6 48:9,19 49:11 50:9,24 51:13,14,19 52:5 66:22 66:23,25 67:5,12,16 83:15,16 89:5,18,20 90:1 90:21 98:10 118:24 120:5 125:3,7,12,25 126:3 128:25 135:19,23,25 136:1,5,6,7,8,16,21,22 136:24 137:5,8,11,13,16 138:1,6,21 139:3,5,6,17 139:19,20,21,22,23,24 risks [3] 67:1 90:24 136:14 river [2] 103:25 104:1 Rivera [40] 2:12 4:13,13 14:20,21 15:5,23 23:9 25:21 31:22 32:5 36:18 36:21 37:4,8 38:15,20 39:16,21 40:5,20 42:3,7 42:14 49:16,21 51:8 58:16 61:1 77:25 78:10 78:15,19 79:4,12 80:23 80:25 101:22 102:20 121:14 rivers [1] 147:23 road [2] 45:25 123:3 roadblocks [1] 75:11 rockets [1] 123:23 ROD [29] 21:14,15 87:1 88:24 104:11,14,24 105:3 105:3 106:7,10 109:12 116:24 119:24 120:13	121:3 122:8,9,15 134:7 134:11 135:2,6,17 145:9 145:17,23,23,25 RODs [3] 40:17 104:24 145:10 room [2] 21:7,11 rough [1] 18:24 roughly [1] 58:6 round-robin [1] 53:21 route [1] 32:21 RPM [4] 23:7 31:16,19 68:24 RPMs [1] 77:14 rubberband [1] 122:23 Rudy [12] 2:3 3:7 4:16 7:3 9:2 23:3,9 31:21 32:19 54:22 69:8 77:10 rule [3] 61:19 64:17 79:13 ruling [1] 81:1 run [2] 31:8 44:6 running [3] 34:15 108:3 113:14 rural [1] 138:19 rush [1] 84:4 RWQCB [1] 2:9 Ryan [17] 2:23 4:1,1 10:3 14:15 15:3 17:7,9,19 18:15,21 55:9 56:12,21 80:8 92:21 93:3	scenario [5] 89:22 125:8 125:10 136:20 137:12 scenarios [1] 90:1 schedule [5] 12:17,20 33:25 34:8 149:2 scheduled [5] 8:13 33:23 49:13 50:15 57:20 schedules [1] 34:14 science [1] 66:4 scientific [2] 62:2 81:9 scientists [2] 65:11 89:23 slurry [1] 107:3 scope [1] 76:8 scope-of-work [1] 70:3 scopes [1] 70:16 Scott [1] 112:20 screen [3] 126:2,4 144:5 se [3] 15:23 67:10 111:1 Seal [5] 1:3 69:11 131:8 131:10 146:15 sealing [1] 88:18 search [1] 78:1 seated [1] 3:4 second [23] 11:3 12:8 14:3,4 19:19,20 20:13 22:19,21 49:2 50:11,12 53:8 57:1,9 78:20 94:11 97:23 99:14 114:19 122:19 128:6 130:20 seconded [3] 50:13 57:11 99:16 Secondly [1] 39:17 Secretary [6] 58:22 59:2 59:23 60:13 63:11 76:24 section [5] 20:22 21:12 61:10 72:10 110:9 sections [2] 72:4,9 sector [1] 25:24 sediment [2] 103:15 144:12 sediments [1] 109:1 see [23] 4:15 18:15 22:6 34:12 35:8 52:22 56:12 71:3 82:11,23 87:15 95:6 96:18 109:5 125:17 126:5 128:3 129:1 131:8 140:15 141:3 142:11 148:3 seeing [1] 35:14 seek [1] 72:18 seeking [1] 70:8 seem [3] 17:14 86:15 145:9 selected [1] 76:10 selection [1] 70:5 self-explanatory [3] 61:6 62:15 72:10 semivolatile [1] 126:22 send [1] 32:23 sense [14] 19:6 33:25 48:14 89:20 100:20,20 100:22 103:9 104:18 106:21 108:25 113:2,5
--	---	---	---	--

119:24 sent [1] 118:9 separate [4] 27:9 64:3 121:3 133:16 September [1] 41:19 serious [1] 100:14 service [3] 24:9 81:8 131:13 services [4] 74:11,25 75:16 76:9 session [2] 27:10,10 sessions [1] 27:9 set [11] 7:22 9:4 13:5 38:17 44:3 49:25 51:4 60:1 77:23 78:22 150:18 setting [1] 21:13 seven [1] 128:11 several [6] 8:12 20:4 28:23 98:1 102:2 145:6 shaking [1] 97:8 shall [4] 14:24 56:25 61:14 70:17 share [2] 34:12 97:16 Shirley [3] 2:20 3:21,21 shoot [1] 56:25 short [4] 8:21 35:20 116:10 139:18 shortfall [1] 40:12 Shorthand [4] 1:22 150:5,10,23 shortly [1] 36:6 show [10] 55:21 56:3 57:16 83:5 98:8 99:18 124:13 127:6 135:4 140:6 showed [2] 125:21 135:9 showing [3] 123:5 134:9 135:1 shown [1] 123:7 shows [4] 47:13 122:23 124:12 135:18 sic [1] 13:3 side [1] 138:11 sides [1] 120:18 sign [3] 79:1 104:11,13 signals [1] 99:4 signature [1] 109:12 signed [2] 108:6,18 significant [10] 128:16 128:25 129:22 136:11,24 138:23 139:21,23,24 148:21 signing [1] 82:17 similar [5] 51:14 84:24 128:14 137:24 138:19 Simons [3] 2:19 3:14,15 simple [1] 79:17 simply [2] 8:16 145:12 simultaneously [1] 24:1 single [5] 23:11 128:6,7 135:10 145:9 sit [4] 24:22 33:24 42:17	100:19 site [157] 25:12,12 27:13 27:14,15,16,17,19,22 28:6,8,10,14,15,20,21 31:1 33:18 34:18 35:7,9 35:12,20,21,25 36:3,7 36:12 42:2,9,22 43:4 48:18 50:25 51:3,8,10 52:19,25 53:5,11 54:8 54:14 57:3,20 58:5 62:12 62:14 66:5,22 67:2,3,6,8 67:10,13 68:6 73:25 78:17 81:18,23 82:3 85:9 86:4,10 89:10,23 92:19 93:8,10,15,20,24,24 94:7 97:18 102:24 103:9 104:8 105:14 106:7,8,9,9,10 108:7 111:1 112:7,12,18 113:17,19,23 116:5 118:6 118:6 119:14,18,22 120:2 120:6,14 122:4,22 123:2 123:2,4,7,10 124:1,4,6,8 124:12,22 125:9,15,18 126:3 127:3,12 128:12 129:2 130:7,22,23 131:12 131:17,19,21 132:2 135:8 135:9 136:3,22,23,25 137:19,21,24 138:12 139:1 140:1,18,18 141:12 142:3,10,12 143:4,22 145:20,21 146:12,17,17 146:18 sites [63] 23:22,25 24:3 24:25 25:1,2,3,15,24 26:1,2,6,10,13 28:1,8,9 28:10 31:11 35:10,16 51:4,12 52:20,23 53:12 53:16,22,23 54:4,15 57:12 67:1,20 75:20,23 75:24 91:5 93:22 94:3 94:14,15,17 107:5 109:5 109:22 113:24 119:6,9 120:20,20 121:6 122:8 127:20 145:8,9,12,14,15 145:18,18,22,23 sits [1] 83:8 sitting [8] 43:2 84:10 88:9,15 103:6,10,14 147:6 situation [4] 28:22 40:15 88:15,21 situations [1] 134:5 six [1] 21:1 size [1] 83:15 skills [1] 73:22 skimming [1] 48:25 skipped [1] 132:15 slate [1] 37:21 slide [2] 61:23 132:19 slides [2] 61:3 124:13 slight [2] 7:6,10 slightly [2] 130:11,19 slip [1] 39:11 sloping [1] 123:12 slough [3] 93:9,10 94:9 slower [1] 5:16	small [9] 34:18 37:25 54:16 74:14,14,15,17 128:23 141:25 smaller [2] 30:11 132:2 smoke [2] 123:23,24 smooth [1] 60:21 Society [1] 4:25 soil [13] 88:12,18 89:5 118:21 124:22 125:23 126:16 128:16 129:16 132:20,23 136:12 138:2 soils [6] 35:17 126:17 127:10 132:20 133:11 136:9 sole [2] 69:23,23 solid [4] 15:21 23:23 83:22 133:6 solidified [1] 126:10 solids [1] 84:10 solutions [1] 143:6 solvents [2] 92:14 102:14 someone [7] 19:15 66:6 73:3 74:3 85:21 86:15 143:17 someplace [1] 8:23 sometime [2] 36:24 53:1 sometimes [9] 31:9,9 95:5,15 96:1,7 98:13,15 134:21 somewhat [2] 10:5,6 somewhere [1] 97:4 soon [6] 36:12 45:2 55:13 56:22 74:9 85:5 sooner [1] 5:14 sorry [7] 20:17 47:18 54:25 63:20 65:2 107:24 132:20 sort [3] 124:7 139:8,19 sorts [1] 102:11 sounds [3] 39:23 64:25 65:1 source [3] 69:23,23 148:10 sources [2] 16:10 26:1 Southern [1] 69:11 southwest [5] 29:11 30:9 59:14,20,21 space [1] 28:22 Spanish [1] 147:5 speak [5] 5:16,17 15:24 56:13 73:14 speaker [2] 8:18 110:18 speaking [2] 51:6 72:20 special [1] 96:5 species [1] 28:23 specific [9] 7:23 16:5 40:3 82:21 92:10 105:11 120:12,20 144:11 specifically [3] 62:18 80:25 118:20 specifics [1] 144:10 spend [7] 39:13,18,19	54:12,13 58:4 97:9 spending [2] 15:14 54:10 spent [2] 81:20 97:13 spite [1] 44:13 sponsored [1] 37:13 spot [3] 92:13,14 97:16 spotlight [1] 97:17 spots [2] 92:3 135:21 sprinkled [1] 148:19 stab [1] 14:18 staff [12] 74:24 108:3 119:14,17,23,25 120:4,8 120:10,11,15,25 stake [1] 67:4 stand [3] 43:23 65:5 119:8 standard [1] 130:14 standards [2] 134:13,16 standing [1] 81:22 standpoint [2] 52:4 143:16 stands [3] 44:1 104:11 114:23 start [13] 3:4,11,13 5:20 7:25 18:25 31:13 65:16 81:13 99:3 102:10 116:12 119:8 started [3] 40:21 88:7 122:10 starts [1] 59:2 state [19] 1:23 14:11 24:10 64:20 75:12 104:22 105:7,9 106:12 108:17 108:17,19,20,21,21 114:3 150:1,5,24 statement [5] 22:6 65:7 79:6 103:5,7 statements [1] 14:23 states [8] 4:21 37:5,7,9 37:16 40:11 61:10 108:15 station [18] 1:3 3:24 16:1 23:20 25:25 29:14 30:6 32:7,11 33:5 43:15 51:25 63:17 64:14 81:5 90:5 109:17 124:2 statistical [1] 127:15 statistically [2] 135:20 135:22 status [1] 43:8 stay [1] 10:13 staying [1] 149:16 steam [4] 131:2,3,5,9 steer [1] 71:15 steps [2] 71:4 127:11 Steve [1] 80:11 stick [1] 117:24 sticking [1] 143:23 still [17] 10:17 13:20 14:15 33:16,20,23 39:8 42:12 43:17,18 44:14 70:1 86:8 108:19,20 113:4 141:21	stone [2] 10:7 51:2 stop [2] 35:15 105:14 storage [4] 109:3 121:1 123:14,21 Store [3] 2:22 3:25,25 storm [11] 109:14,15,18 109:20 110:3,5,10,13 112:22 113:4,7 story [2] 135:18 137:24 straightforward [2] 83:25 95:6 strategically [2] 143:3 143:5 strategies [1] 67:21 strategize [1] 29:16 strategy [4] 25:17 26:9 28:7 30:4 stricken [4] 20:20 21:21 22:6,11 strictly [1] 64:13 strike [1] 22:14 stringent [1] 134:16 strongly [1] 100:14 structurally [1] 143:1 structured [1] 142:21 studies [6] 68:11 81:10 87:11 120:9 122:7 145:22 study [14] 34:21,24 35:4 36:1,5 72:14,17 95:16 95:19,24 97:24 109:11 122:4 134:20 stuff [7] 52:11 69:18 99:3 102:12,17,23 103:19 subbullets [1] 64:8 subcontractors [1] 37:20 subject [6] 18:4,6 41:20 45:21 136:7 145:20 submit [5] 44:18 68:19 69:3 77:4,9 submitted [3] 20:8 33:22 74:9 subquestion [1] 97:23 substance [5] 4:2 24:10 126:8 134:18 148:15 substances [2] 127:9 132:23 subsurface [2] 136:9 143:2 successful [1] 126:25 succession [1] 105:25 such [10] 41:12 68:11 83:16 101:16,17 109:22 123:22 134:9 142:16 148:21 sufficient [1] 74:5 sufficiently [1] 128:23 suggest [5] 19:6 55:15 56:21 92:22 117:4 suggested [5] 7:7 11:9 18:24 52:24 53:20 suggesting [2] 56:15
--	---	---	---	---

93:4 suggestion [4] 7:3,5,19 17:8 suits [1] 41:15 summarize [1] 126:3 summarizes [1] 25:14 summarizing [2] 20:24 21:2 summary [4] 14:9 38:11 38:12 132:7 sump [1] 131:16 supplement [1] 94:2 supplied [1] 27:4 supply [4] 27:3 140:11 143:15 144:15 support [6] 61:15 65:14 70:23 104:18 118:12,15 supported [1] 83:10 supposed [5] 8:12 9:21 11:4 67:12 102:6 surely [1] 148:14 surface [10] 48:25 84:11 88:1,10,11,18 94:8 136:12,12 144:13 surmise [1] 15:1 surround [1] 28:20 surrounded [2] 103:15 112:7 surrounding [1] 105:17 survey [1] 53:22 surveys [2] 81:9 120:9 suspected [1] 129:18 Swiss [1] 91:24 switched [1] 115:18 SWMU [2] 35:16 133:16 system [8] 24:1 31:2 65:11 76:4 78:2 105:2 108:12 110:23	taped [1] 17:15 tapes [6] 13:14,17,19,24 14:12 18:12 TAPP [50] 44:1,6 60:24 61:8,9,11,17,17,20,24 62:16 63:2,2,8,15,17,19 63:21 64:5,11,12,16 65:17,24 66:13 67:24 68:12,14,18 69:1 71:1,7 72:7,13 74:8 75:1,4,11 75:13 76:3,7,19 77:8,9 77:10,14 78:23,23 79:13 79:22 task [1] 14:13 tasker [1] 75:3 Tech [14] 2:4,5,7 4:4,6 5:3 13:15 17:12 36:23 36:25 37:6,20,22 46:22 technical [20] 44:2 49:1 55:10 61:15,25 62:13,21 64:22,24 65:19 66:19 70:13,23 73:2,10 74:4 85:19,20 107:9 117:22 technicalities [2] 66:5 73:18 technique [1] 129:20 technologies [2] 66:21 78:3 telephone [2] 60:6,10 ten [3] 41:4,6 144:20 tend [1] 116:20 term [2] 36:24 108:22 terms [14] 35:1 66:7 73:11 87:6 90:1 91:16 104:25 107:12 108:22 112:12 119:25 120:18 124:14 125:17 test [2] 141:18,22 testing [5] 34:19 68:12 86:11 90:14 140:7 Tetra [14] 2:4,5,7 4:3,5 5:3 13:15 17:12 36:23 36:25 37:6,19,22 46:22 thank [28] 3:16 5:4,23 7:11 8:8 9:1 16:11 25:22 31:21 41:21 43:5,6 44:9 49:16 58:7,11,16 79:11 80:24 81:15 85:11 104:2 107:13 111:19 112:5 113:12 121:7 149:15 Thanks [7] 23:4,9 31:17 36:14 52:17 60:23 107:16 themselves [1] 131:4 thereabouts [1] 35:11 thereafter [1] 150:11 therefore [6] 92:12,16 101:10 108:19 110:2 130:7 therein [1] 150:8 thinking [7] 11:8 51:22 95:23 96:11 116:8 134:6 144:22 thinners [1] 102:14 third [3] 45:17 59:16 128:7	thought [9] 34:10 53:13 115:25 116:2,11 117:8 117:13 119:4,7 thoughts [2] 34:20 35:1 thousand [1] 123:18 threat [1] 90:22 three [19] 43:11 53:2 54:10,13 58:6,18,23 64:8 74:21 76:14,15 81:21 87:13 88:6 97:13 113:3 121:16 135:16 144:16 three-quarters [1] 94:15 through [30] 7:14 23:10 23:15 24:1,22 25:3,7 26:7 32:5 39:12 46:9 47:9 71:4 72:24 76:21 78:1 84:19 86:23 89:18 98:23 116:4 119:1 121:22 122:2 123:8,13 134:19 148:2,5,18 throughout [2] 37:11 75:19 TI [4] 47:21 50:14 51:15 51:18 tidal [9] 27:20 28:1,8 35:9 93:14 109:19 110:2 110:17 112:22 tied [1] 83:21 tier [1] 37:22 tiered [1] 37:20 timed [4] 8:1 9:16 10:24 11:10 timekeeper [1] 8:17 timeliness [1] 65:21 times [14] 10:9,11 96:9 102:23 103:16 121:17 135:16 136:1,15,16,17 136:18,21 138:22 timing [2] 29:1 52:8 title [4] 23:12 61:10 93:10 121:25 TMDL [1] 110:24 TMDLs [2] 110:15,21 today [7] 3:12 20:8 30:1 44:5 58:17 104:11 113:8 today's [1] 79:4 together [5] 25:3 44:7 70:19 133:13 145:8 Tokay [1] 68:25 toluene [1] 126:21 Tom [1] 68:23 tomorrow [2] 56:12,14 tonight [11] 20:10 34:3 35:5 38:19 45:1 47:23 55:10 56:15 113:21 115:4 134:9 Tony [2] 45:17 68:25 too [13] 48:4 55:13 56:22 57:1,2 86:19 98:19,19 98:20 100:15,17 113:7 145:4 took [5] 59:9 76:1 102:7 134:1,10	top [8] 16:4 59:19 71:6 78:4 103:10,14 142:16 142:22 topic [2] 8:4 17:22 topics [1] 32:6 topographic [1] 123:12 toss [1] 102:18 Total [1] 110:20 totaled [1] 23:25 touched [1] 66:24 tour [24] 27:13,14,15,17 27:19,23 50:25 51:3,9 52:19,25 53:5,11,16 54:1 57:11,20 58:6 92:24 93:8 94:7 113:17,20,24 tours [1] 57:4 toward [1] 54:7 towards [1] 45:23 toxic [5] 4:2 24:10 73:5 134:19,22 toxicity [1] 139:12 toxicological [1] 134:5 toxicologist [1] 47:1 toxicologists [1] 75:21 toxicology [1] 134:18 TPH-d [1] 126:19 TPH-mo [1] 126:20 track [6] 10:7,12 31:2 74:23 75:22 147:18 tractors [1] 99:3 trail [1] 102:1 trainers [1] 45:24 training [37] 26:22,22 26:23,24 27:3,7,12 44:17 44:20,21,24 45:5,12,16 45:17,19,23 46:3,21,23 47:2,17,21 49:3,6 50:10 50:14,20 51:13,15,19,20 51:20 59:9 67:23 73:5 124:2 transcribe [1] 14:13 transcribed [2] 14:23 150:11 transcribing [1] 5:13 transcript [10] 1:11 5:14 13:17,23 15:10,11 16:15 16:18 17:15 18:20 transcription [2] 16:6 21:9 transcripts [4] 18:5,8,9 18:11 transfer [1] 87:24 translate [2] 73:10,17 transmittal [1] 33:3 transported [1] 105:22 trash [5] 21:6,18,22 22:5 102:19 treasure [19] 10:12 44:22 46:9,23 47:11 48:13,23 48:24 49:3,5,8 51:23 52:1,11 59:9 64:12 80:12 80:13 92:4	treat [2] 96:25 97:3 treatise [1] 107:22 tremendously [1] 30:22 trench [1] 147:11 trenches [3] 123:13,21 147:25 trenching [1] 147:19 trouble [1] 143:21 truck [1] 92:18 trucking [1] 83:17 truckloads [1] 92:7 true [6] 95:4,25 97:22 100:5 142:17,18 truncated [1] 30:20 trustees [1] 91:17 try [12] 31:8 32:22 56:18 56:19,24 70:19 71:16 85:24 86:22 121:22 139:11,13 trying [8] 5:12 41:13 88:3,16,21 103:23 144:10 144:12 Tuesday [2] 44:23 80:9 turn [4] 5:24 24:19 102:10 147:8 turned [1] 58:23 turns [1] 40:5 twice [3] 47:10 77:20 79:22 twig [1] 51:17 two [36] 16:10 17:25 22:24 27:20 32:9 35:7 37:12 42:12 51:2 61:16 62:23 65:6 76:14,22 78:12 79:25 82:6 84:1 90:12 93:7 104:24 113:3 114:22 119:9 121:6 122:8 128:9 129:3 131:1 133:12 135:24 145:10,13,15,22 147:10 type [7] 10:22 67:10 84:1 84:20 119:17 120:24 125:10 typed [2] 43:18,18 types [1] 106:18 typewriting [1] 150:11 typically [4] 10:4 35:15 54:3 91:8 typo [1] 20:14
<hr/> -T- <hr/>				
table [9] 3:10 5:5,24 24:22,23 113:21 132:7 133:11 135:7 tables [3] 21:10 22:16 135:1 tabular [2] 124:21 127:6 tagged [1] 14:24 takes [2] 10:10 25:11 taking [6] 24:2,4 27:24 77:18 88:21 98:22 Tanasescu [26] 2:13 4:22,22 7:19 9:2,21 10:19 11:1,17 13:13,23 15:19 16:11,19 17:1 19:18 46:5,8,13 57:9 77:20 78:8 113:22 114:9 115:11,20 tank [1] 109:3 tanks [1] 121:2 tap [1] 130:2 tape [4] 17:11,20 18:23 58:9	<hr/> -U- <hr/>			
U.S [17] 2:3,11,12,17,18 3:17 24:8 27:21 31:19 75:15 79:19 91:18 104:17 108:14 109:9 111:12 112:12 UC [6] 65:11 76:4 77:21 77:21 78:2 102:3 umbrella [1] 39:20 unable [1] 42:11 unanimous [1] 149:4 unanimously [1] 19:25				

<p>unanimously [1] 19:25 uncomfortable [1] 13:11 under [12] 18:2 20:13 21:12,14 37:23 39:20 59:4 61:22 86:17 108:16 136:20 150:11 underground [9] 109:3 121:1 147:9,13,14,15,16 147:23,23 underneath [1] 37:22 understand [9] 9:2 37:1 39:6 47:11 49:17 75:22 90:10 104:23 115:23 understandable [1] 73:11 understands [1] 120:8 understood [1] 73:24 undertaken [1] 81:5 underwriting [1] 68:3 UNIDENTIFIED [1] 110:18 unit [2] 15:25 133:6 United [5] 4:21 37:16 40:11 61:10 108:15 units [1] 23:24 universities [1] 78:7 University [2] 81:6,7 unknown [2] 15:2 67:2 unless [4] 15:3 27:24 89:4 90:20 unlimited [1] 98:12 unloading [1] 112:15 unusable [1] 101:12 up [62] 6:18 9:19 10:8 11:6,12 12:14 14:9 16:14 21:11 27:2 40:17 42:5 43:18 44:3 49:25 53:4 58:23 59:22,23 60:15 64:11 71:4,5 73:15 74:17 75:2,9,25 76:14,24 78:22 78:24 79:10,21 81:11 83:14 84:10 86:8 87:10 88:1 91:8 92:12,15,17 94:2 98:6,22 99:3 100:18 102:10 110:6,7 115:21 117:5 121:16 123:25 126:11 139:10 143:23 144:18 148:1,8 upcoming [2] 44:17 113:17 update [10] 30:17 31:5 31:19 32:2 46:14,15 47:8 48:4 122:20 134:12 updated [1] 135:6 updates [1] 134:3 upgraded [1] 26:12 urban [1] 138:18 urge [1] 70:19 urine [1] 68:12 usable [2] 86:5 90:13 used [22] 29:25 30:2 39:9 79:21 80:5 88:23,24 89:11 120:21 123:16,19</p>	<p>124:1,6 126:4 129:19 137:11 138:24 142:20 143:19 147:3,7 148:6 uses [2] 101:14,17 using [5] 27:1 74:12 94:16 143:15,17 USTs [1] 121:1 usually [5] 24:20 109:21 110:21 113:1 141:25 <hr/>-V-<hr/>V [1] 20:13 Valley [1] 138:17 value [2] 29:10 74:16 values [1] 135:18 various [12] 30:11 54:8 67:1 70:7 71:3 73:18 78:2 89:23 106:1 122:15 124:17 127:3 vary [1] 135:12 vegetation [1] 67:4 vehicles [1] 29:17 venue [1] 8:22 verbatim [1] 17:20 verify [2] 87:16 96:19 versa [1] 134:21 version [3] 20:12 30:20 139:18 versions [3] 31:7 122:15 123:5 versus [2] 89:24 98:14 via [1] 79:7 vice [1] 134:21 vicinity [1] 128:13 view [1] 100:21 VII [1] 20:22 visit [4] 27:16 35:12,20 51:11 visiting [2] 27:17 51:10 visits [1] 35:7 volatilizing [2] 126:12 126:13 volume [2] 128:16,22 volumes [2] 69:18,18 vote [4] 9:12 11:22 22:25 99:7 voting [1] 9:22 <hr/>-W-<hr/>wait [6] 42:23 79:2 116:7 132:15,18 133:9 waiting [3] 91:22 117:14 120:11 waiver [2] 63:13,15 waivers [1] 63:10 walk [1] 143:22 walking [1] 97:13 wall [1] 149:8 walls [1] 107:3 Walnut [1] 147:4</p>	<p>Walter [1] 104:6 wants [1] 15:20 warned [1] 147:12 wash [1] 88:10 washing [3] 87:25 88:11 88:19 Washington [1] 31:7 waste [16] 23:23 50:1 73:5 83:21,22 86:10 88:1 88:9 89:2 96:5 102:7,16 102:22 105:2 106:3 133:6 watch [2] 35:15,20 water [98] 24:11 35:13 35:19 64:25 82:8,15,20 84:2,6,12,12 87:1,2,7,14 87:19,21,22 94:8 96:15 96:16,18,23 97:2,3,7,17 104:10 105:3,8,10,13,19 105:21,23 106:23,24 108:4,24 109:14,15,18 109:20,25 110:3,5,8,10 110:13 111:6 112:22 113:4,7 118:23 119:11 119:12,14,23,25 120:3,8 120:25 129:1,8,9,10,12 129:14,21,21,25 130:2,3 130:7,11,12,15 132:11 132:12,13,14 133:17 135:8 139:25 140:11 142:12,18,19 143:15 144:6,7 147:11,13 148:2 148:7,12,18,19 waters [2] 96:14 106:12 ways [2] 137:17 139:9 weapons [19] 1:3 3:23 15:25 23:20 25:25 28:17 29:14 30:6 32:7,11 33:5 43:15 51:25 63:17 64:14 69:11 90:5 109:17 124:2 week [2] 44:3 54:24 weekend [2] 54:23 89:25 weeknight [1] 49:5 weeks [2] 76:22 85:7 weigh [3] 11:7 66:25 70:6 welcome [1] 3:6 Wellington [1] 1:16 wells [32] 82:12 106:3,5 132:13 135:12 140:7,8,9 140:11,12,14,15,17,23 141:3,6,19,20,25 142:11 142:14,24 143:3,8,12 144:4,5,11,16,19 148:6 148:6 Wendy [5] 1:21 5:9,11 150:4,22 west [15] 16:1 29:4,6,12 30:8 40:9 45:18 59:17 68:21 71:12,13 74:11 76:21 77:12 103:16 western [4] 37:4,7,8,17 wetland [2] 95:3 101:11 wetlands [10] 86:2 93:10 93:15 94:17,24 96:4 103:11,15,19,21 whereas [2] 48:9 142:20</p>	<p>whereby [1] 66:25 WHEREOF [1] 150:17 whet [1] 52:12 whichever [4] 44:19 45:16 63:5 78:15 whole [9] 30:19 40:16 86:12 93:21 98:7 101:20 103:24 117:13 127:4 wildlife [3] 24:9 111:12 148:17 Williams [6] 2:14 4:10 4:10 14:4 19:20 54:19 willing [4] 9:9 50:2 65:14 102:8 Willow [1] 123:3 wind [1] 60:15 wings [1] 28:11 within [17] 10:10 30:18 80:21 85:7 92:1,15 93:14 101:4 104:21 110:9 111:15 129:10 138:1,6 140:18,18 141:12 without [6] 4:8 66:3 68:2 111:1 116:21 141:13 WITNESS [1] 150:17 wonder [4] 6:7 47:4 93:16 141:19 wondering [3] 18:1 95:1 120:15 word [3] 30:20 75:20 79:9 words [13] 26:24 37:21 39:11 54:17 61:11 63:18 64:10,18 67:2 73:23 79:23 81:17 138:10 worked [2] 43:12 78:1 workers [1] 92:18 works [2] 44:18 52:9 world [1] 148:11 worried [1] 130:7 worst [1] 88:14 worst-case [1] 88:20 wrap [1] 9:19 wrapped [1] 94:2 Wrapping [1] 81:11 wrinkles [1] 43:16 write [3] 9:11 14:9 145:13 writing [5] 14:19 17:12 24:3 73:22 85:1 written [5] 10:7,21 84:24 108:5 119:16 wrong [3] 38:17 54:25 71:15 wrote [4] 82:4 108:3,8 119:13 <hr/>-X-<hr/>X [1] 91:4 Xylene [1] 126:22 XYZ [1] 42:9</p>	<p>-Y- year [20] 25:6 29:23 30:3 31:14 39:13,18,25,25 40:16,25 41:18 42:1,2 42:10,12 63:7,23,25 87:9 98:17 years [18] 25:13 29:21 41:3,4,6 42:12 63:7 82:12,25,25 87:13 88:6 113:4 125:9 136:4 143:20 144:20 147:10 yet [8] 11:3 34:9,23 40:24 42:10 66:25 67:18 146:9 yourself [1] 140:8</p>
---	---	--	--	--

C

C

C